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Diary
News
Architects' Commonplace Book
Astragal's Notes and Topics
Letters
Societies and Institutions

TECHNICAL SECTION
Information Sheets
Information Centre
Current Technique
Questions and Answers
Prices
The Industry

PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments Wanted and Vacant

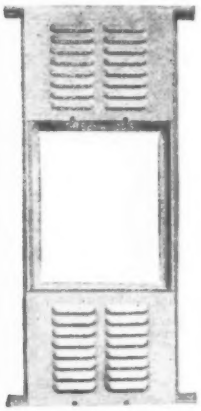
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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ic one week, Ie to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 1, Grosvenor Place, S.W.1.	Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 3158
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197
IR	Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1.	Monarch 7391
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128-29
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8.	Park 7678
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Belgrave Square, S.W.1.	Sloane 4522
MOH	Ministry of Health. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service. St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Abbey 7711
MOTCP	Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 5277/8
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers. 2, Caxton Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4041
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NRIAD	National Register of Industrial Art Designers. National Gallery, Trafalgar Square, W.C.2.	Whitehall 2415
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211/2
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
PWB	Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Temple Bar 8274
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. 20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR. 98, Gower Street, W.C.1.	Euston 6272/3
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C.	Chancery 5313
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNTPC	Scottish National Town Planning Council. 11, Drumsheugh Gardens, Edinburgh, 3.	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 75, Cannon Street, E.C.4.	City 6146 (3 lines)
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988



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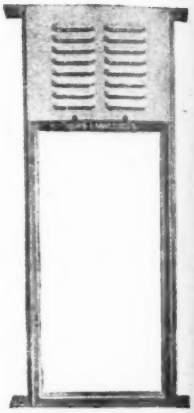
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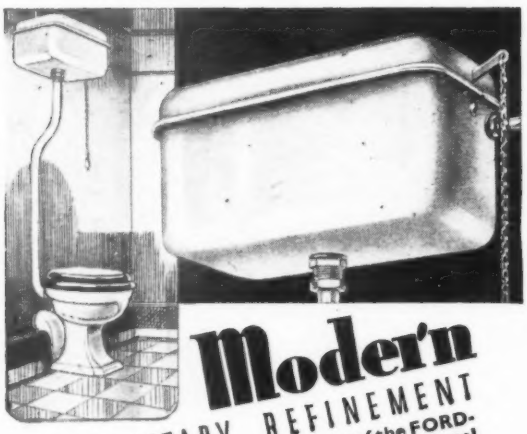
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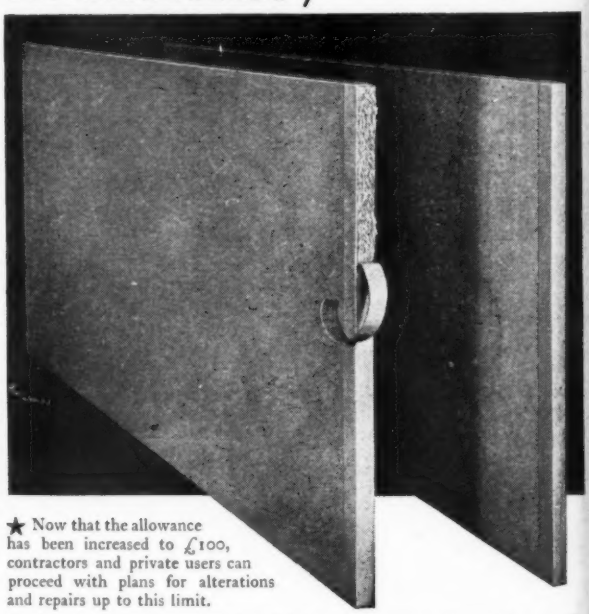
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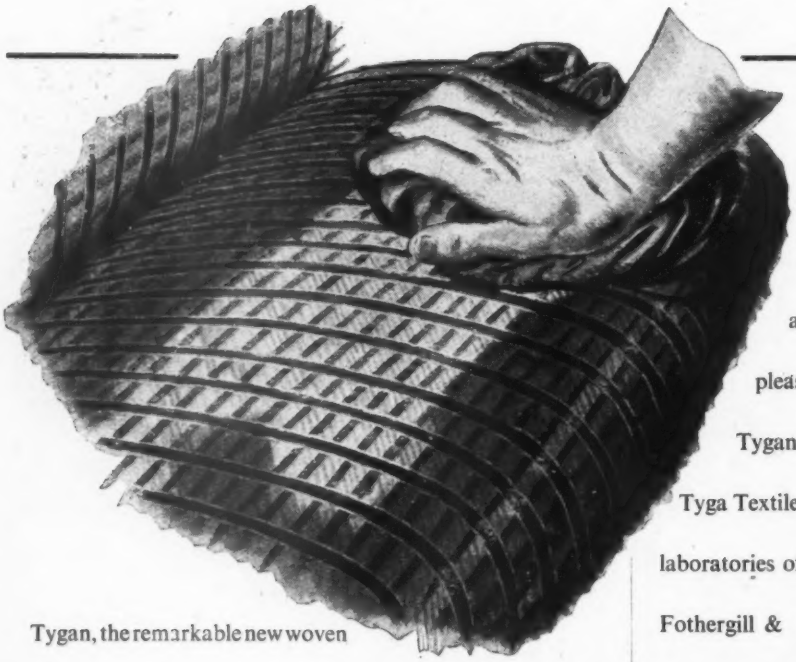
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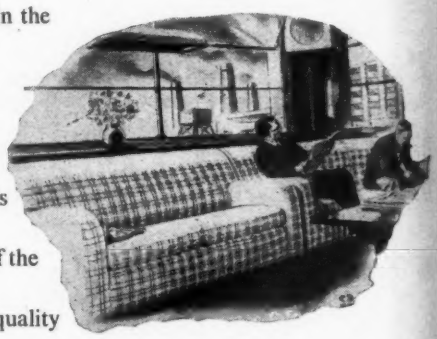
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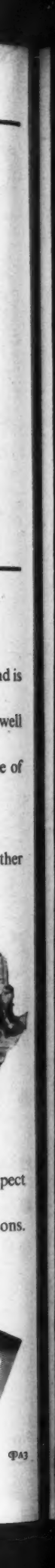


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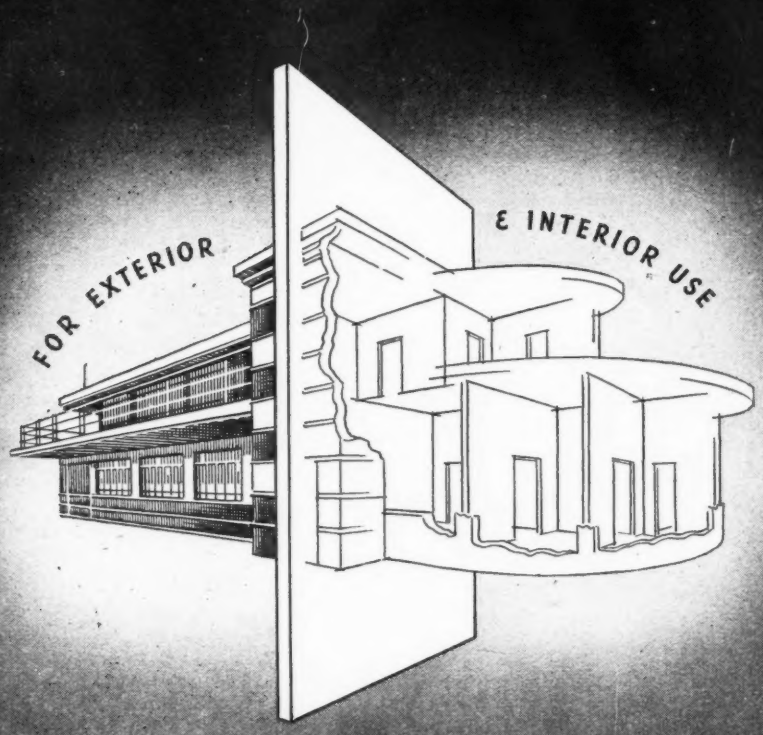


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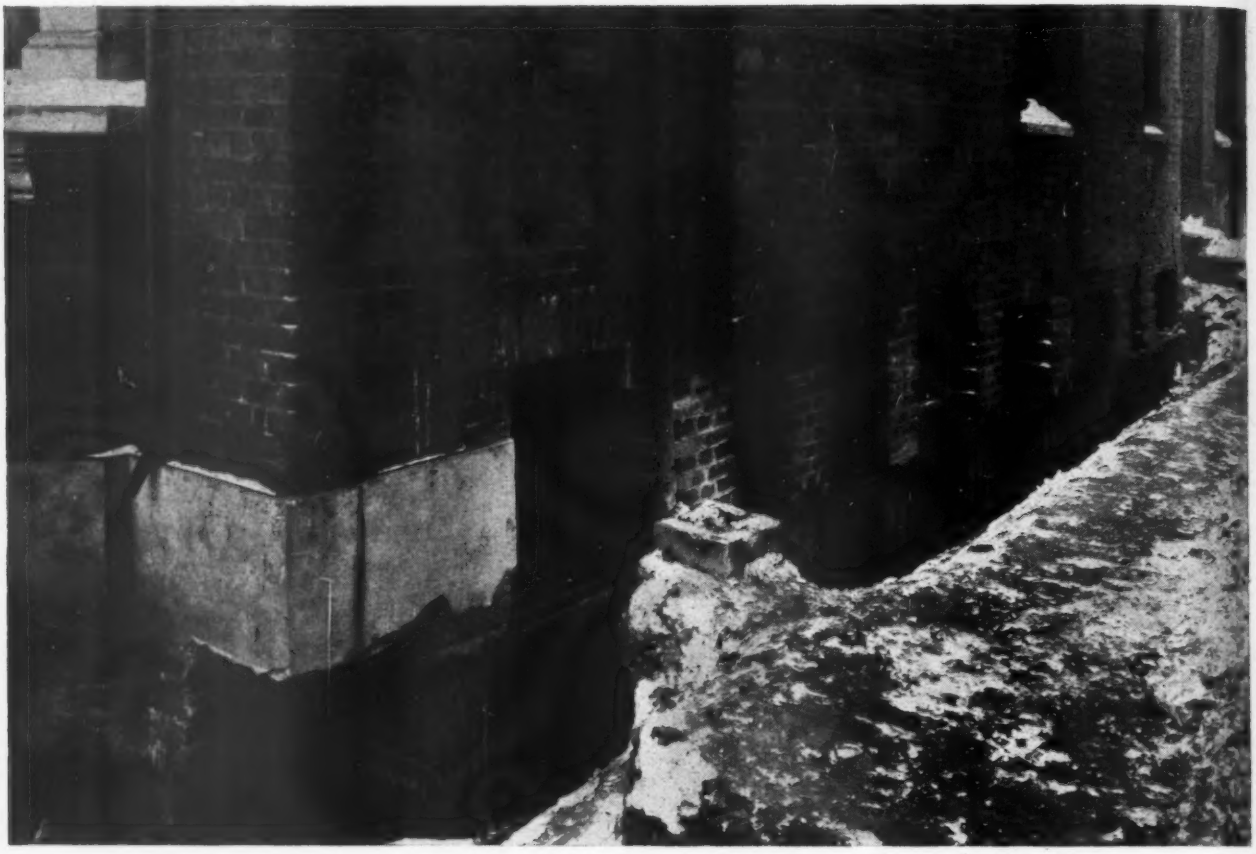
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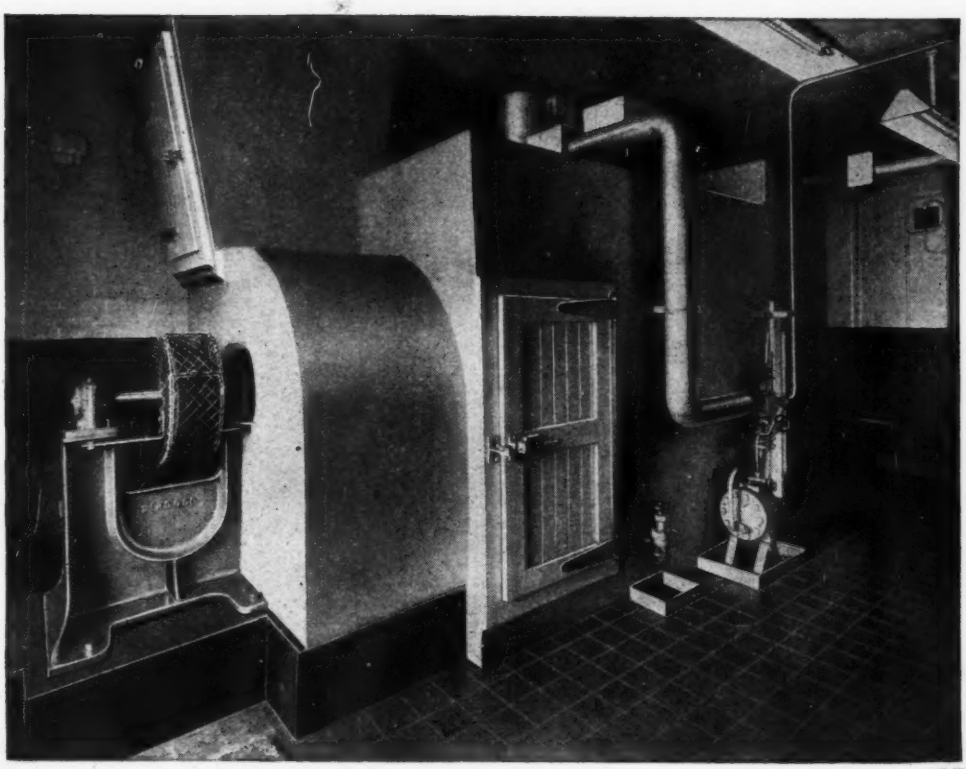
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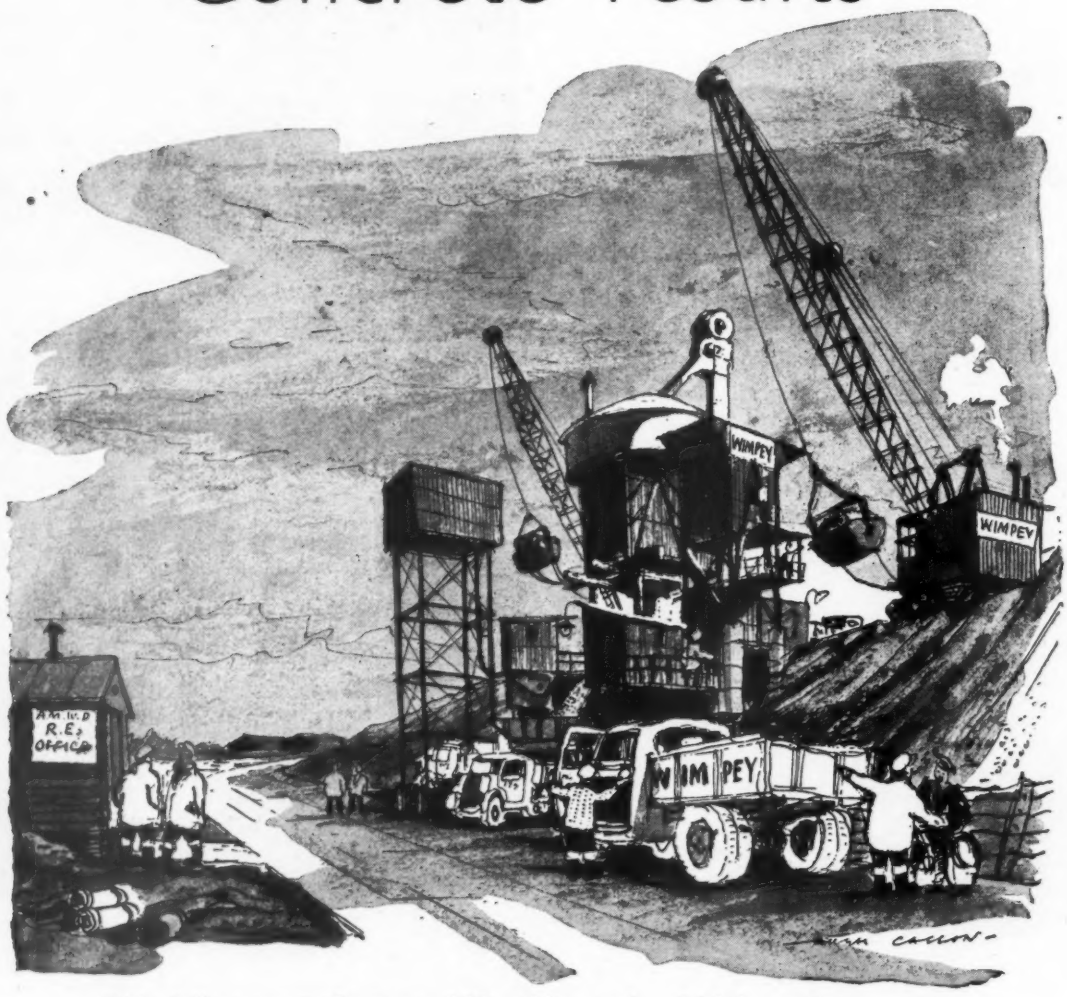
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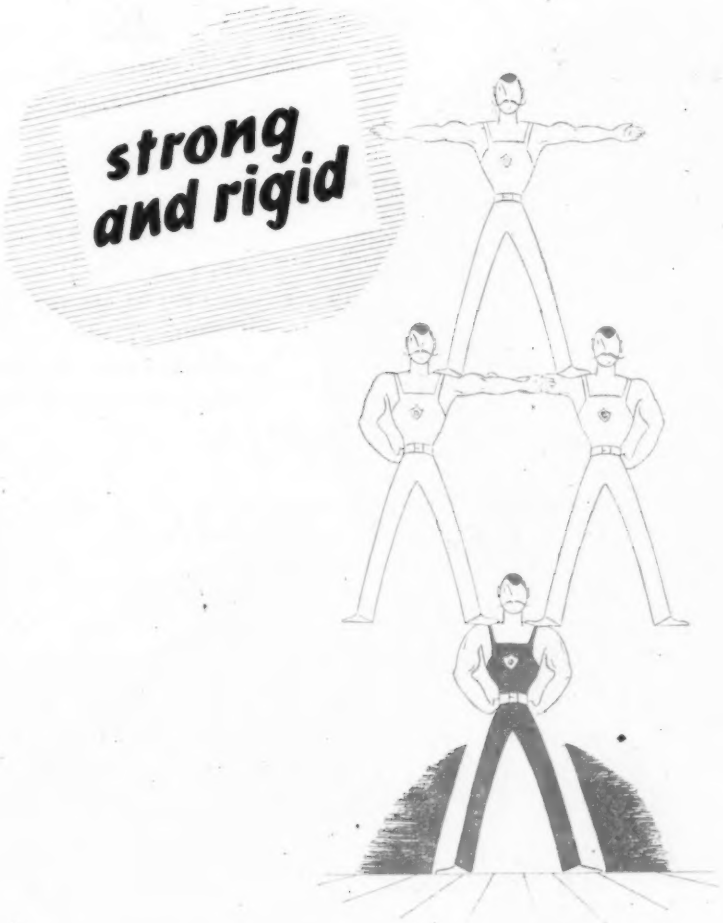
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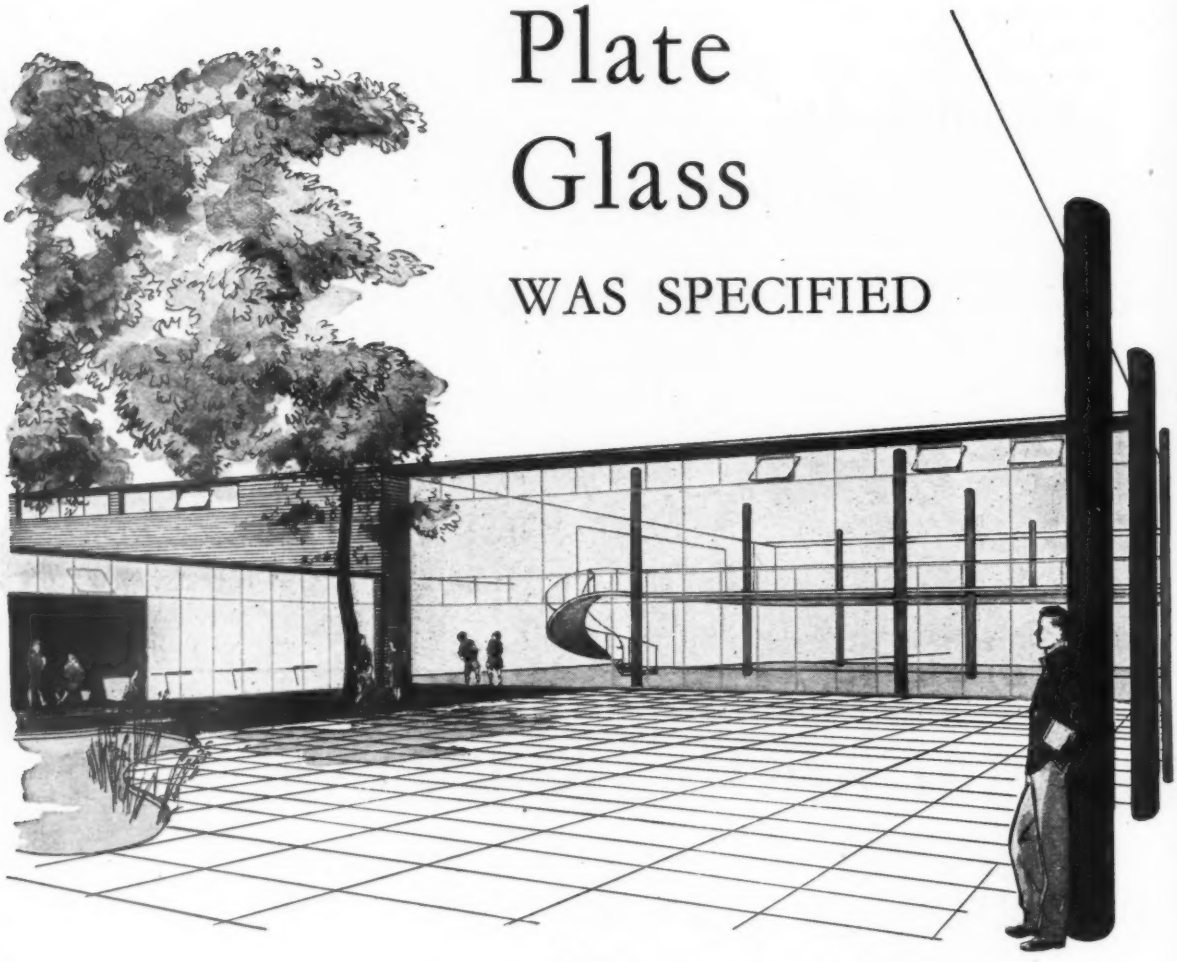
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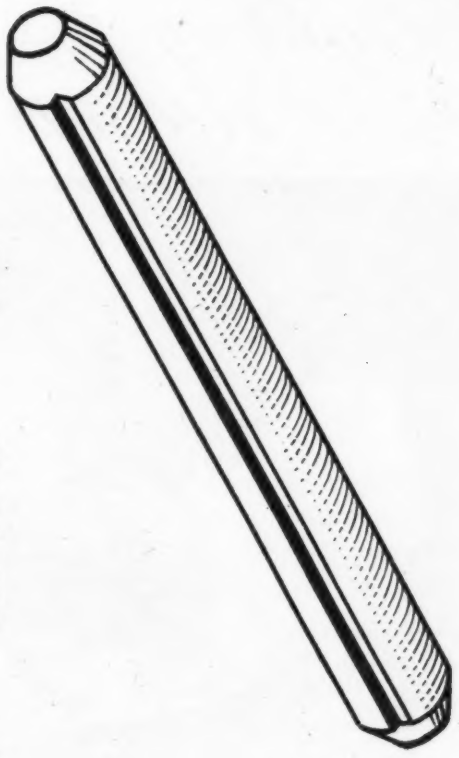
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Long lengths of dowel are inserted into hoppers which constitute the revolving head of a dowel machine. As each dowel passes the operating point it meets a special saw and engages with a ratchet which causes the dowel to revolve in the hopper. The saw cuts and points the dowel which then drops into a receiver. The remaining length of dowel drops through to a depth stop ready for a further length to be cut and pointed when next it reaches the saw. The output from this machine is well over 100 dowels per minute.

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The diameters of the dowel and hole are precisely equal. As the dowel is driven home there is a minute contraction in it and a corresponding expansion in the diameter of the hole. This gives complete surface adhesion round the circumference of each.

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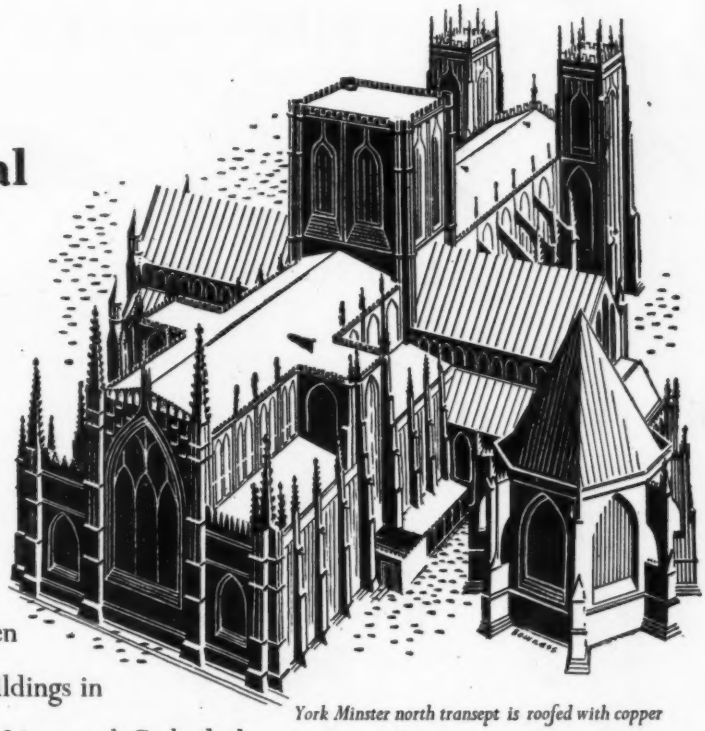


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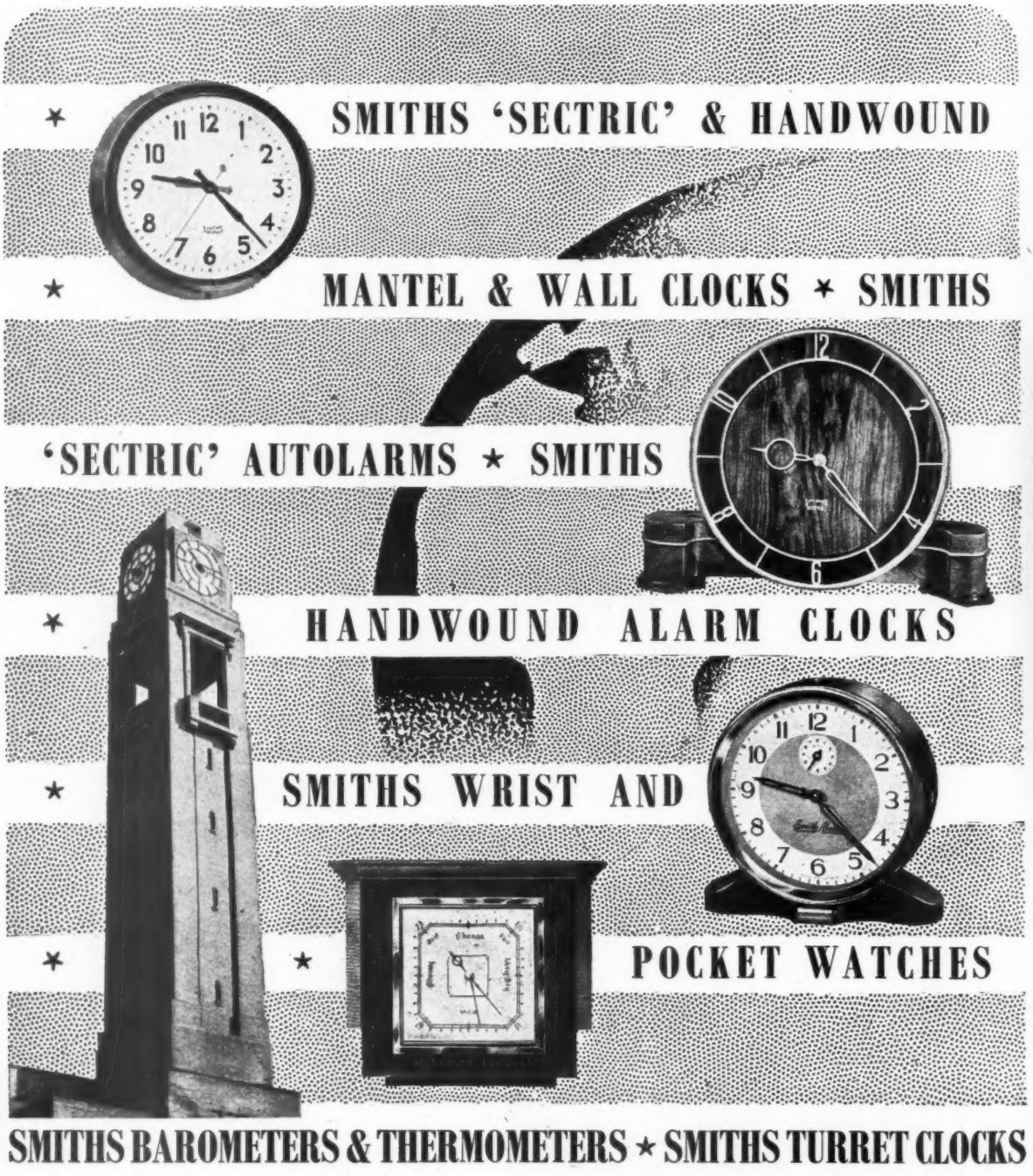
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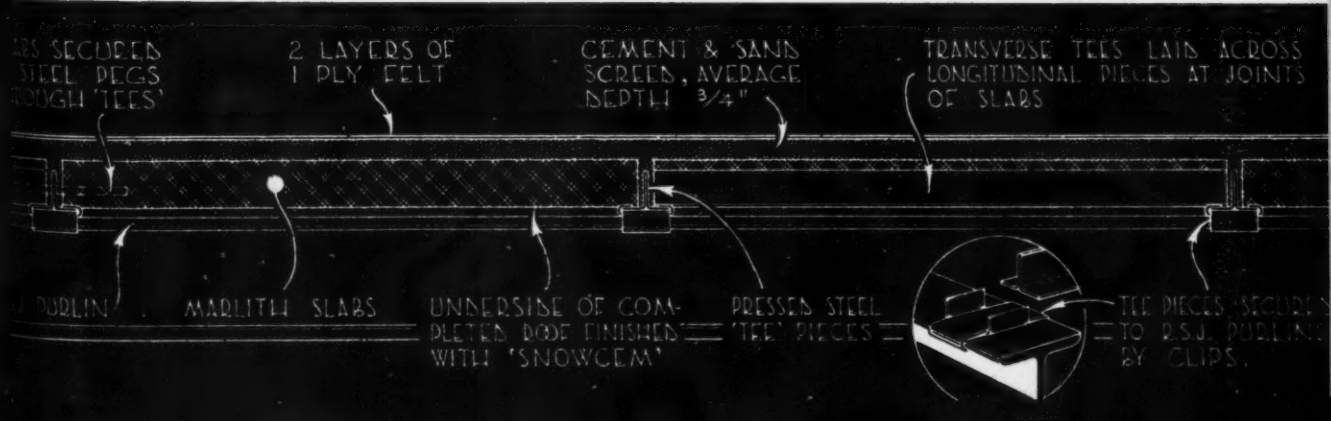
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POTTERY THROUGH THE AGES · NO. 14



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POTTERY AND TILES OF MEDIEVAL ENGLAND

After the Romans had left Britain, the art of pottery making suffered a severe set-back. Such Anglo-Saxon wares as have survived are crudely made and badly fired, and it would seem that the techniques of throwing and glazing were almost lost. Then, about the beginning of the 13th century, came a gradual revival and the beginnings of a distinct national tradition in English ceramics, manifested especially in the robust and well-balanced shapes of jugs, pitchers, drinking pots and similar domestic wares. Decoration, when used, was generally of a simple type, such as incised, slip-painted or relief-moulded trellis-work and scroll designs. Several interesting pieces moulded to represent human or animal faces and figures have also survived. The coarse body of the ware was commonly coated with a thin yellow lead glaze; occasionally the glaze was stained with copper oxide to produce a green effect.

Monks, especially those of the Cistercian Order, appear to have played an important part in reintroducing the potter's craft from the Continent. Several of the large Abbeys had their own kilns and the medieval floor tiles made at Chertsey, Malvern, Droitwich, Repton and other places are interesting expressions in miniature of the Gothic spirit which is manifested on a larger scale in the architecture of the period. Made of local red earthenware, the monastic tiles were usually stamped with a slightly sunk design by means of a wooden die, the hollows being filled in with white clay; occasionally, by a reverse process, the pattern itself was made to stand out in raised outline. Incised and slip-painted tiles were also made.

The usual subjects of decoration included the signs of the Zodiac, religious symbols, heraldic and geometrical devices, and free floral designs. Among the finest examples of medieval artistry as expressed in clay are the tiles found at Ely with incised designs depicting miracles of the Christ child; the Chertsey tiles illustrating the romances of Tristram and King Richard are also very beautiful and expressive of the medieval conceptions of art.

The tiles were coated with powdered lead ore which, when fired, produced a transparent yellowish glaze. This combined with the red body to produce a rich reddish brown surface.

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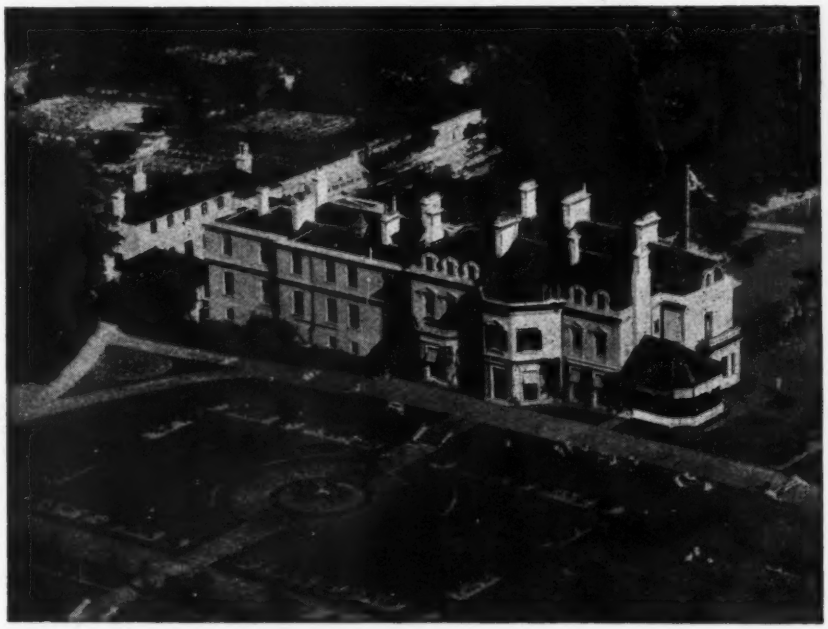
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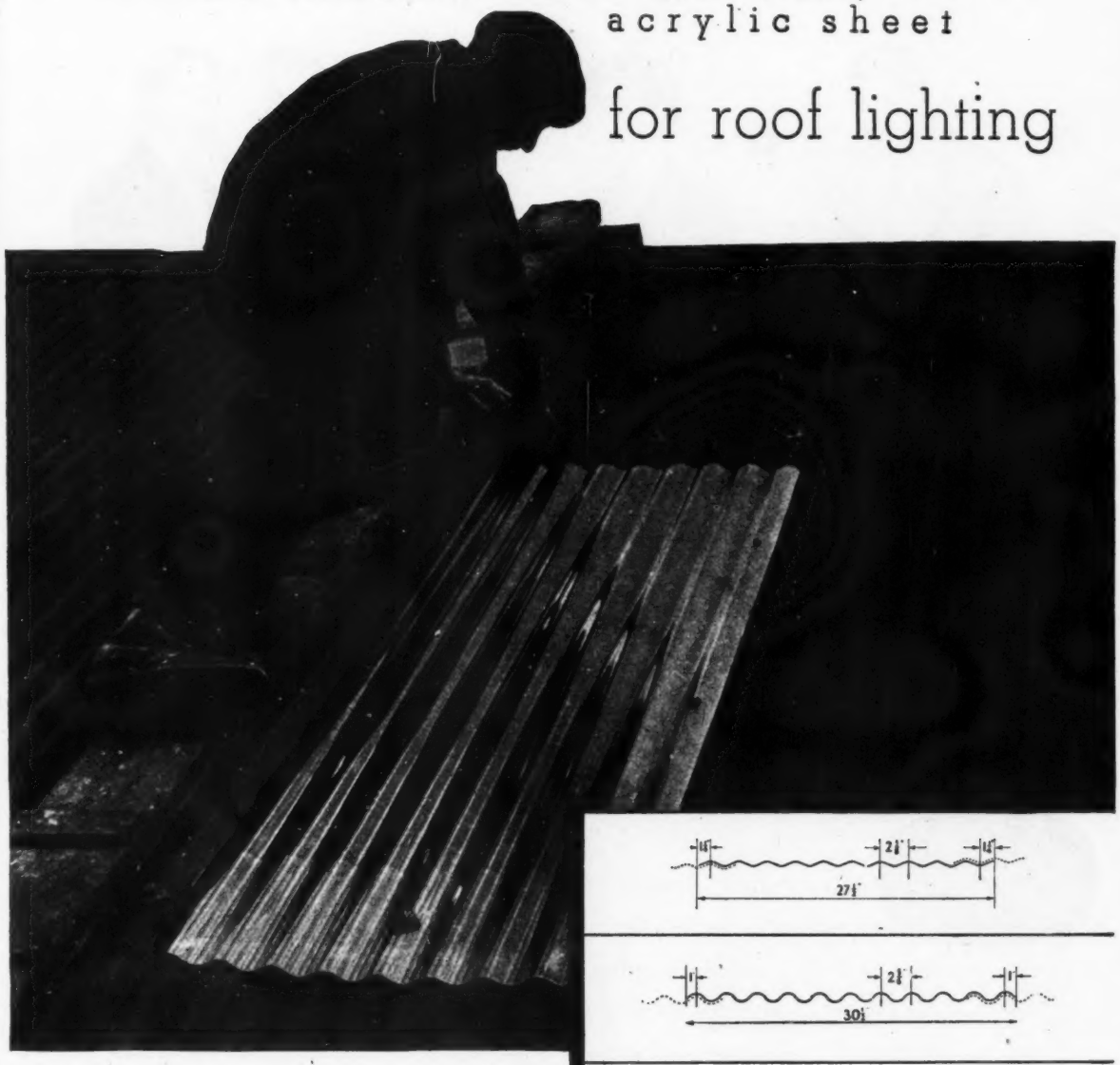
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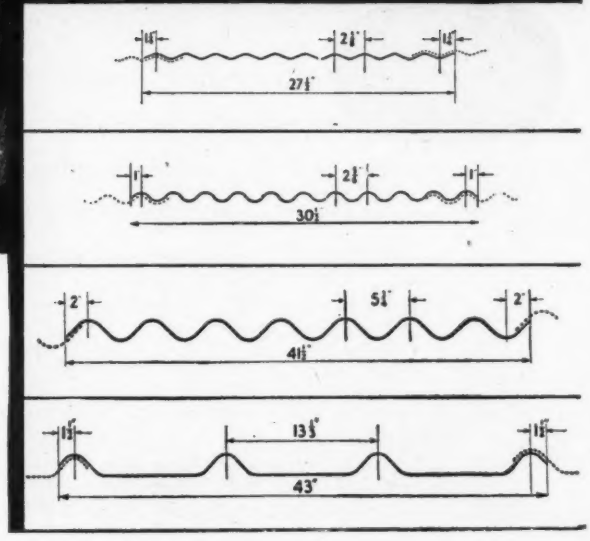
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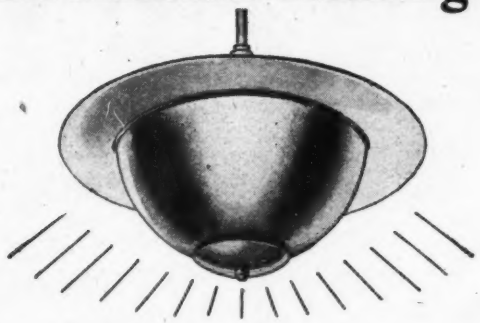
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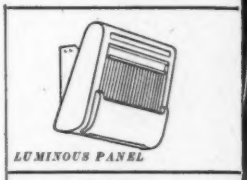
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Overhead Radiant Heating by gas

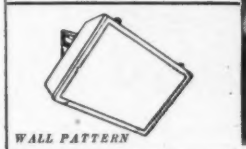


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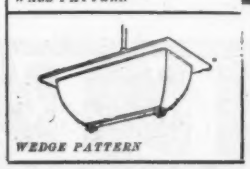
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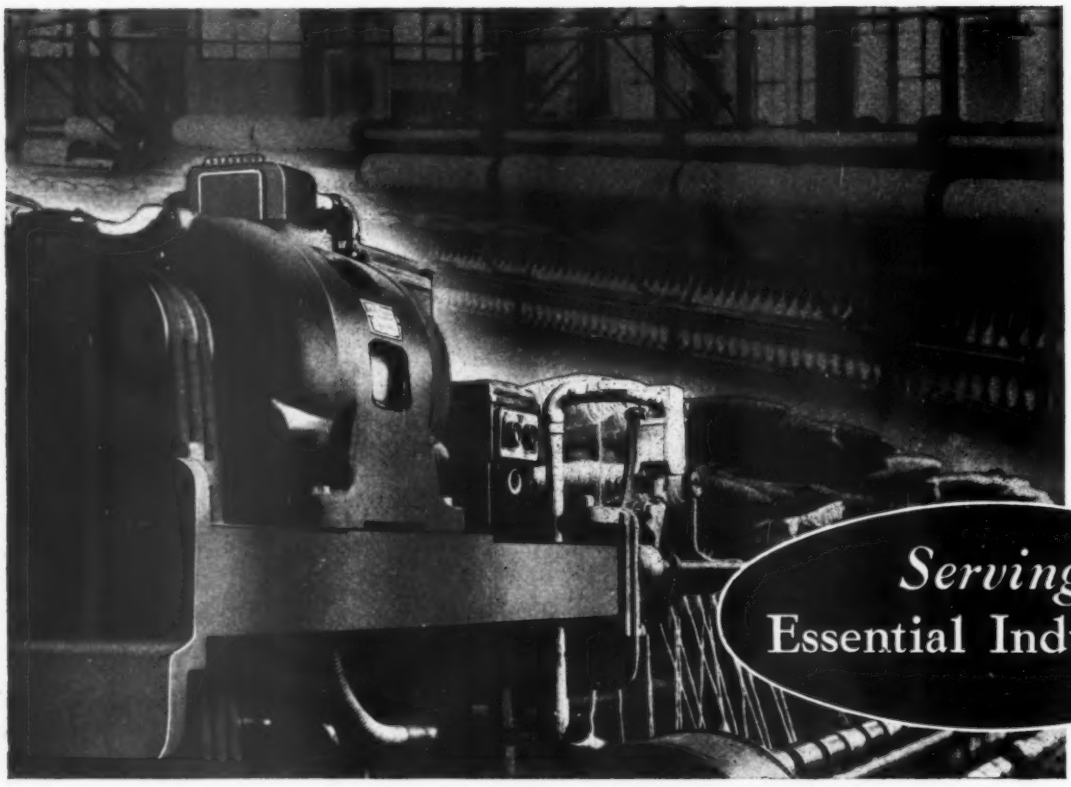


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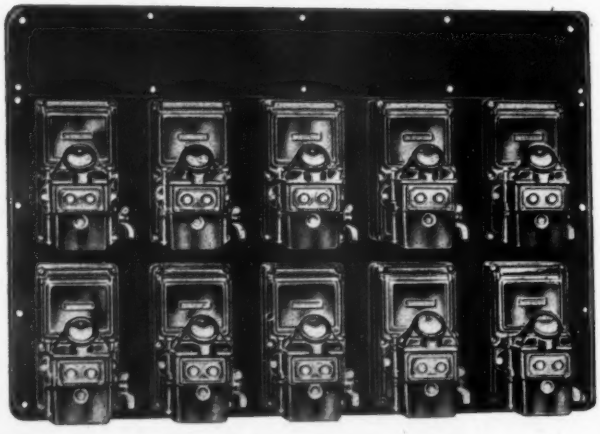


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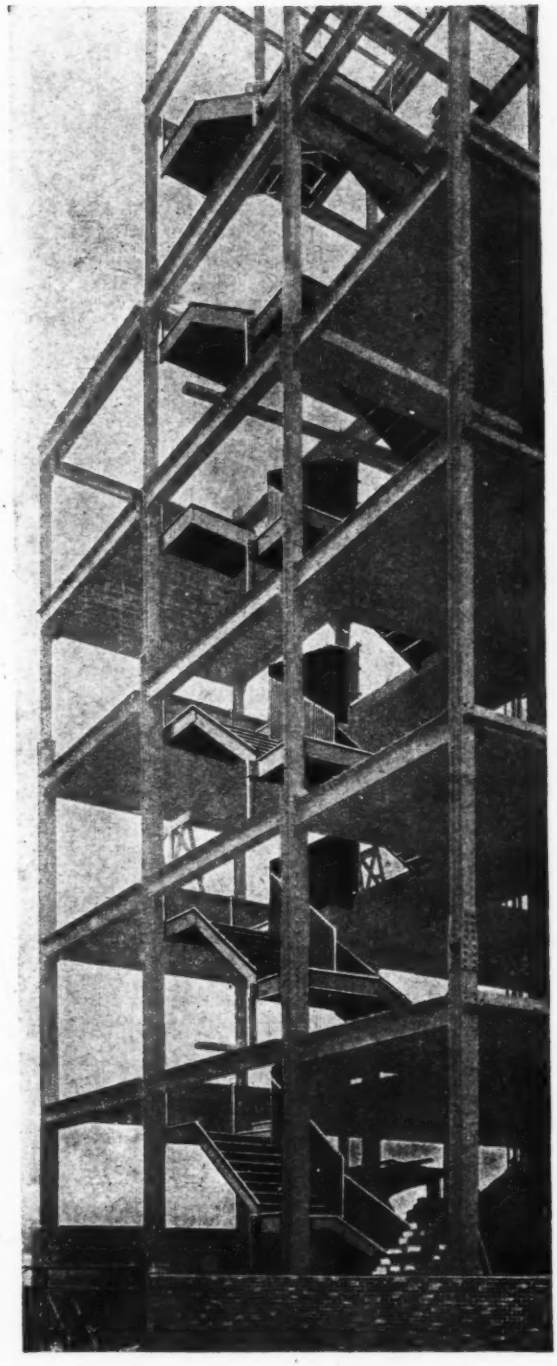
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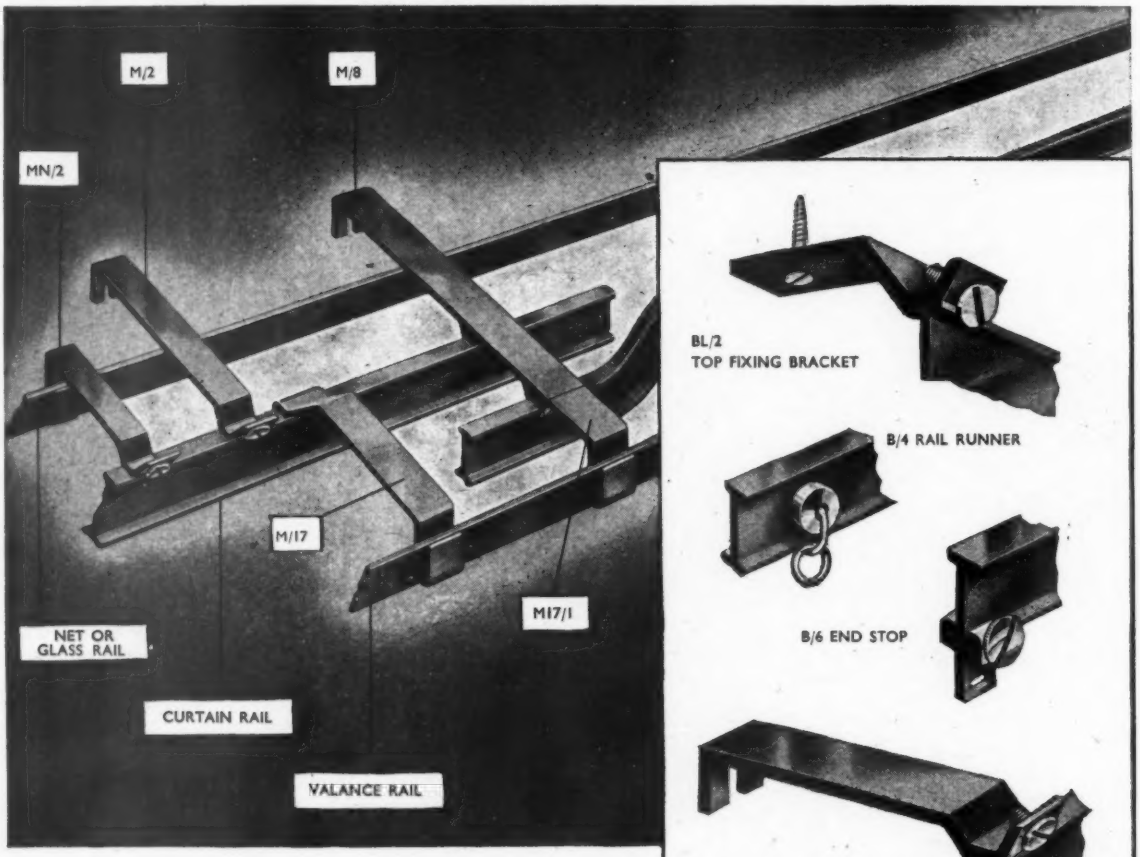
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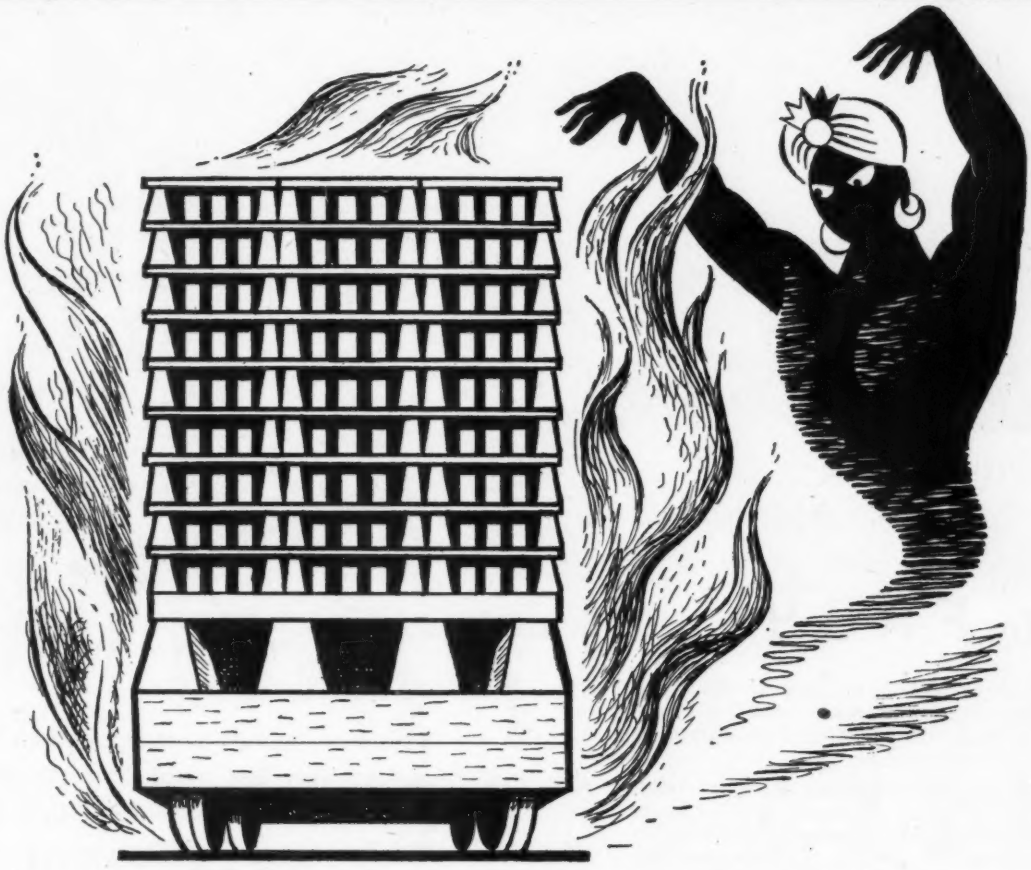
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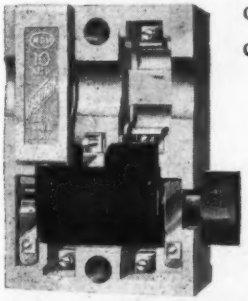
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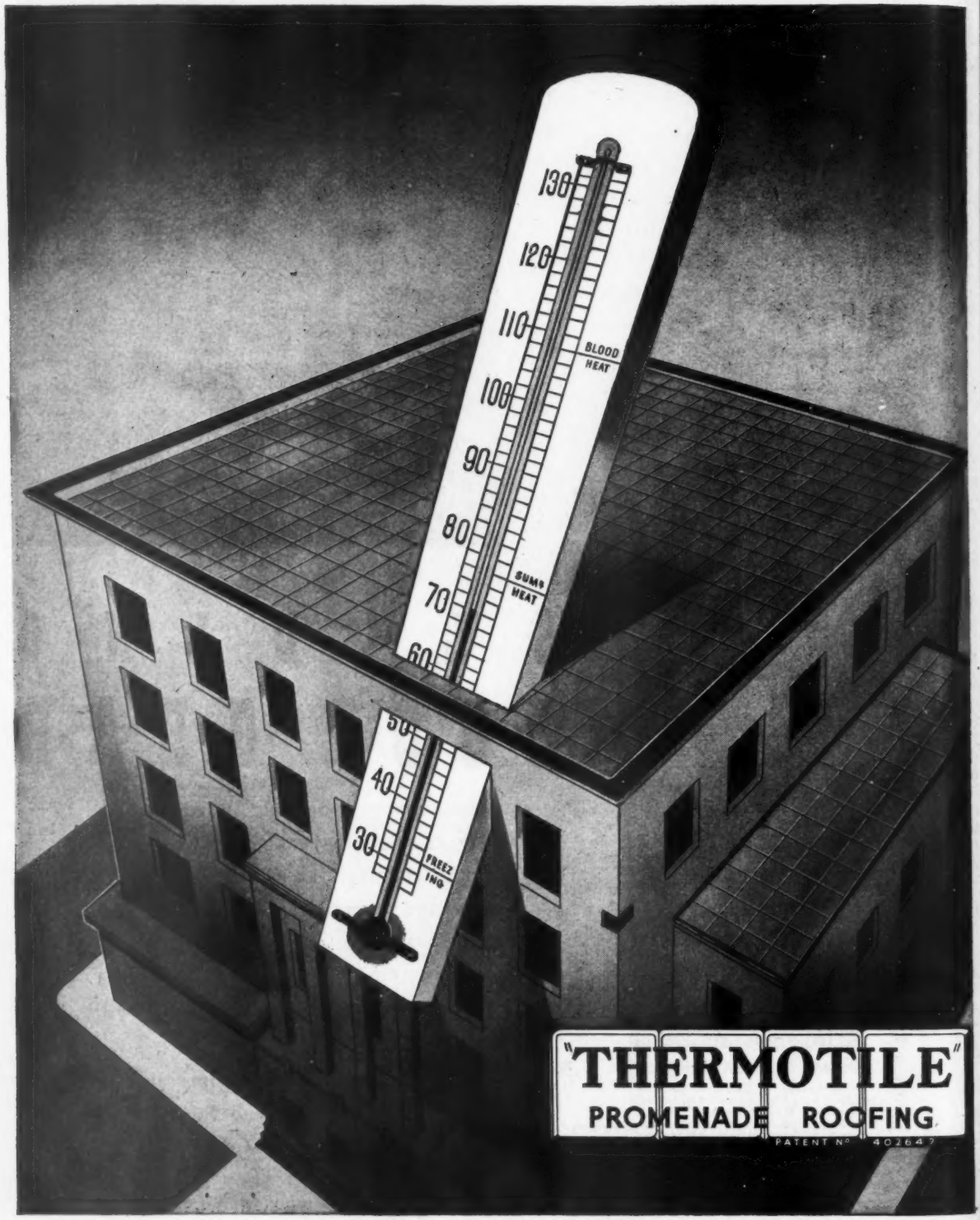
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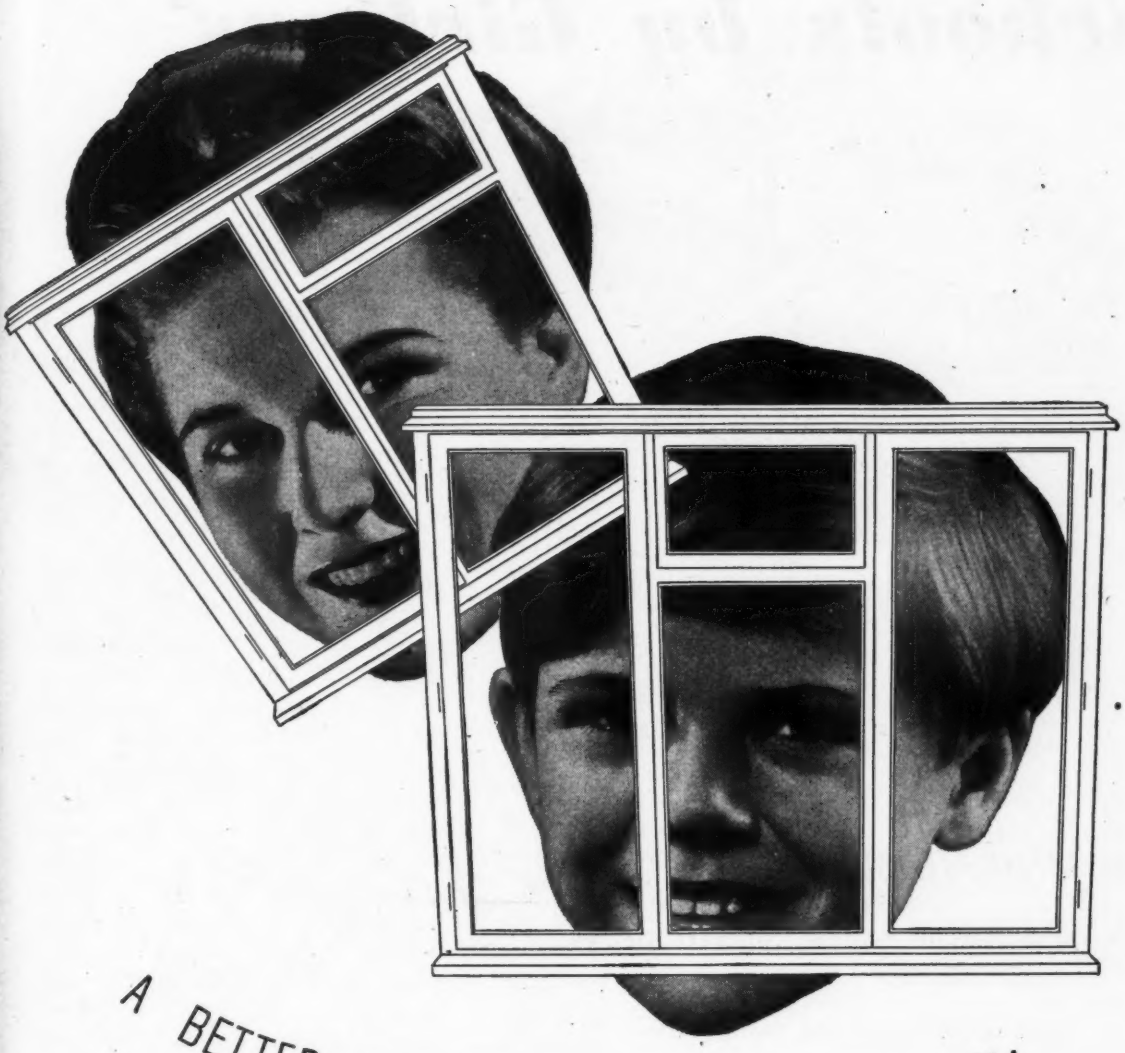
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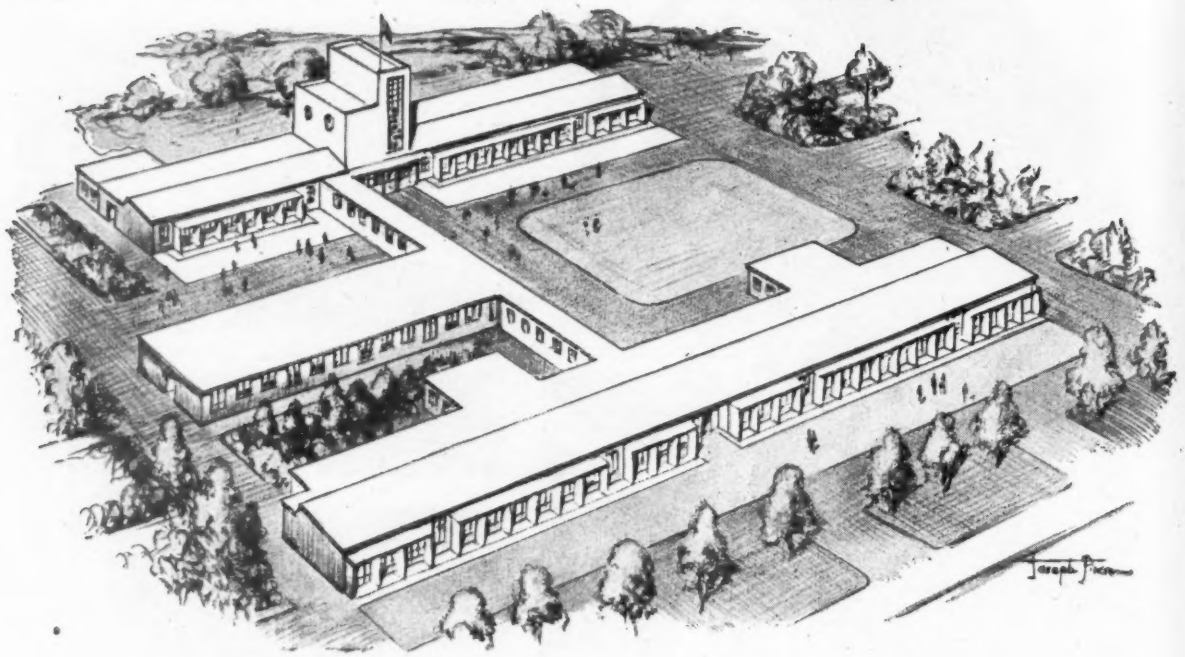
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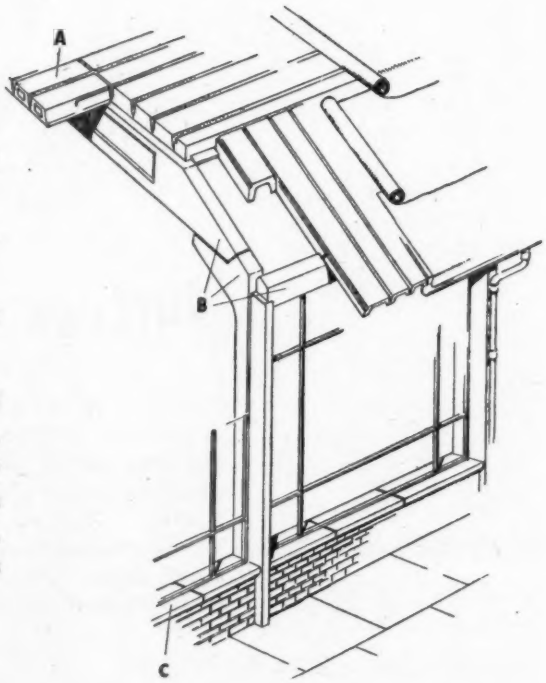


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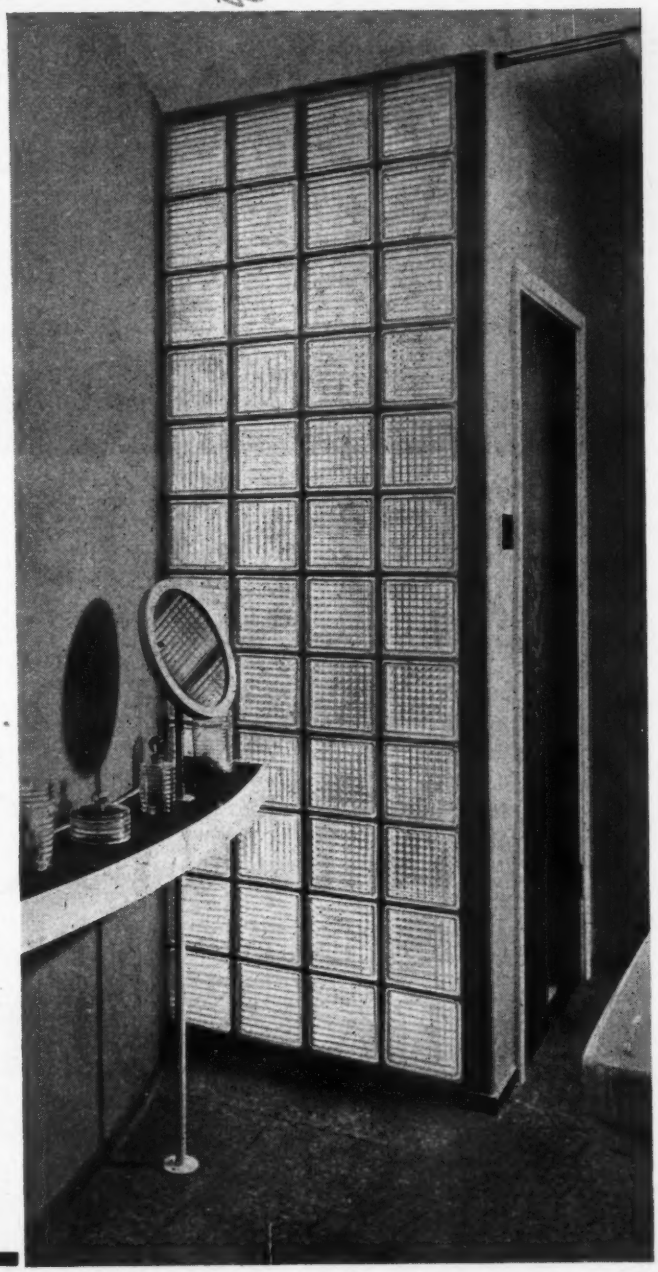
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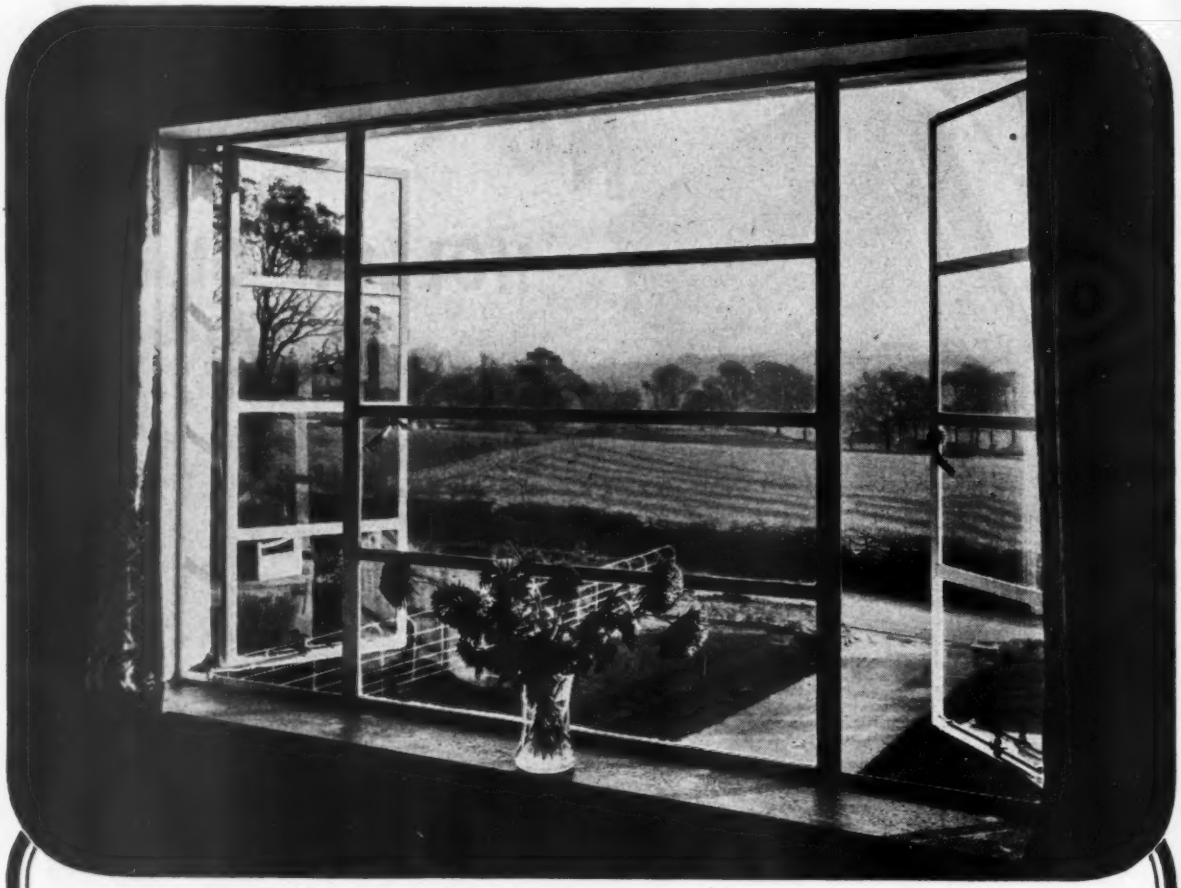
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DIARY FOR SEPTEMBER OCTOBER AND NOVEMBER

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials given in the glossary of abbreviations on the front cover.

ASCOT. *Autumn meeting of Building & Allied Trade Golfing Association.* At Berkshire Golf Club. Members intending to play (or any persons interested in membership of this Association) should communicate as early as possible with Mr. Hubert H. Hill, Monument Station Buildings, King William Street, London, E.C.4. (Telephone: Mansion House 3714.) SEPT. 28

BIRMINGHAM. *Design Week.* (Sponsor, CID.) OCT. 11-16

BOLTON. *Design Fair.* At the Art Gallery, Civic Centre, Bolton. (Sponsor, CID.) UNTIL SEPT. 25

GATESHEAD. *The Art of Landscape.* Exhibition at Shipley Art Gallery. (Sponsor, Arts Council.) UNTIL SEPT. 29

LONDON. *Darkness into Daylight Exhibition.* At the Science Museum, South Kensington. (Sponsor, Science Museum.) UNTIL SEPTEMBER 30

Joint Memorial Service for Christopher Nicholson and Donald Greig. At Christ Church, Down Street, W.1. 12 noon. SEPT. 24

Royal Photographic Society's 93rd Annual Exhibition. At 16, Princes Gate, S.W.7. (Sponsor, Royal Photographic Society.) Part 1: Pictorial and Colour. UNTIL OCT. 3

Part 2: Scientific Nature Record and Technical. OCT. 9-30

Display of Domestic Solid Fuel Burning Appliances. At the Building Centre, 9, Conduit Street, W.1. (Sponsor, CUJC.) This display is changed at approximately 4-monthly intervals. PERMANENT EXHIBITION

Gas in the Design for Living. Exhibition of gas cookers, space and water heaters, laundry equipment and portable cooking and heating appliances. At the Building Centre, 9, Conduit Street, W.1. (Sponsor, BGC.) PERMANENT EXHIBITION

"Our Lambeth" Exhibition. At the Town Hall, Brixton Hill, S.W.2. To be opened at 3 p.m. on Saturday, September 18, by the Minister of Health, Mr. Aneurin Bevan, M.P. In the section *The Houses We Live In* will be models of new housing schemes, both exteriors and interiors, and charts illustrating both problems and progress, a model showing how large houses can be converted into flats and two life size kitchens—old and new. Lambeth's present housing programme, well under way, provides for about 4,500 new dwellings by the end of 1953, 500 of which will be completed by the end of this year, a further 500 by the end of 1949, with the pace increasing thereafter. (Sponsor, Lambeth Borough Council.) Sundays, 2-8 p.m.; weekdays, 11 a.m.-9 p.m. SEPT. 18-26

R. C. Blyth. *Design and Control of Concrete Mixes.* At Caxton Hall. (Sponsor, Institution of Sanitary Engineers.) 6 p.m. SEPT. 21

Biology and Civil Engineering Conference. September 21. Morning: *Causes, Effect and Prevention of Soil Erosion.* Afternoon: *The Effect of Vegetation on Drainage and Floods.* September 22. Morning: *The Effect of Vegetation in Stabilizing Artificial Slopes.* Afternoon: *The Use of Vegetation to Stabilize Sand Dunes.* September 23. Morning: *The Effect of Vegetation on the Settlement of Roads and The Effect of Vegetation on The Settlement of Structures.* Afternoon: *Algal Growth and Engineering Design.* At the ICE, Great George Street, Westminster, S.W.1. (Sponsor, ICE.) SEPT. 21-23

MAIDSTONE. J. Singleton-Green. *Concrete Troubles.* At the Maidstone Technical Institute, Tonbridge Road, Maidstone. (Sponsor, S.E. Society of Architects, Maidstone Group.) 7 p.m. OCT. 7

MIDDLESBROUGH. *Home Making Today.* Exhibition at the Art Gallery. (Sponsor, Arts Council.) UNTIL SEPT. 25

COMPETITIONS

RIBA Prizes for Public and Secondary Schools: A total of 10 guineas in prizes is offered for: 1, The best original illustrated essay dealing with a building or group of buildings with which the competitor is personally acquainted; 2, the best sketches or scale drawings of a building or part of a building in pencil, ink or colour, maximum size 30 in. by 22 in. Assessors: H. T. Cadbury Brown, Hugh Casson, E. R. Jarrett. Further information from the Secretary, RIBA, 66, Portland Place, London, W.1. Entries by October 7.

RSI Prize Competitions: John Edward Worth Prize (£40) for an essay on *Practical Improvements of Appliances or Inventions in or about Dwelling-Houses*, and John S. Owens Prize (£15) for an essay on *Atmospheric Pollution.* Apply Secretary, Royal Sanitary Institute, 90, Buckingham Palace Road, London, S.W.1, for general conditions. Entries by December 31.

NEWS

THURSDAY, September 16, 1948
No. 2797 VOL. 108

News 259
Doncaster Mansion House .. 260
This Week's Leading Article .. 261
Astragal's Notes and Topics .. 262
Letters 263
British Exhibition at Copenhagen 264
Recreation Centre at Santiago, Chile. Designed by Gabriel Rodriguez 265
Agricultural Cottages at Wotton-Under-Edge, Gloucester. By T. H. B. Burrough and F. L. Hannam 270
Community Centre at Llanefydd, Denbighshire. By Herbert Thearle 271
Societies and Institutions .. 272
Information Sheets:
10.B1 Aluminium and Alloys: Applications 1
10.B2 Aluminium and Alloys: Applications 2
} To face page 272
Technical Section:
Information Centre 274
Building Progress. By Ian Bowen 277

Though no feature in the JOURNAL *is without value for someone, there are often good reasons why certain news calls for special emphasis.*

★ *means spare a second for this, it will probably be worth it.*

★★ *means important news, for reasons which may or may not be obvious.*

Any feature marked with more than two stars is very big building news indeed.

The massive remains of THE ROMAN PUBLIC BATHS OF CANTERBURY have been discovered beneath the cellar levels of the bombed and demolished Royal Fountain Hotel and adjoining properties. Built of roughly squared stone, the walls are in places more than 5 ft. thick, and apparently supported a building of two storeys. Previously a cold plunge bath, 13 ft. 6 in. by 10 ft., had been unearthed, and now the hot room (hypocaust) has been uncovered, the thin floor being supported by slender pillars of Roman tiles. Especially interesting are the layers of Saxon remains over the Roman—the first time this condition has been found in Canterbury. Considerable alterations, apparently, were carried out in the building, between A.D. 200 and A.D. 400.



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F.4

From AN ARCHITECT'S *Commonplace Book*

BIOLOGY IN ARCHITECTURE. [*From* The Home of Man, *by Le Corbusier and Francois de Pierrefeu* (*Architectural Press*).] While big industry, having heard the architect's appeal, begins to explore the openings pointed out by him, the latter, in the silence of his office, takes up his interrupted meditation . . . The proper method, he thinks, the only method of his art, the traditional method now awakening from its hundred-year-old slumber in academic circles, is *to proceed from the inside outwards*. Therefore only the biological functions of the home are relevant ; to each one, according to its precedence and material role, it shall be meet to allocate surfaces and proportions necessary for its adequate fulfilment. With his ear open to the requests of these *internal events*, the architect makes up his mind that never again shall he allow the demands of home life to be deflected or vitiated by outside pressure. So, in the future, he will reject not only defective orientations but also imperfect alignments, absurd shapes of sites, the lack of open space around buildings. Not one structure possessing a modicum of social value but henceforth shall command a site *conforming* to its task.

Mr. Silkin, Minister of Town and Country Planning, has received with great regret the RESIGNATION OF SIR THOMAS GARDINER as chairman of Stevenage new town development corporation from October 10.

At the time of his appointment Sir Thomas Gardiner made it clear that he would be able to undertake this work only for a limited period, and since that date the claims on his time have increased. The Minister has informed the local authorities concerned that he proposes to appoint Alderman the Rev. Charles Jenkinson, leader of Leeds City Council.

A course of lectures in CONCRETE TECHNOLOGY is to be given at the Westminster Technical College, London, during the 1948-49 session by arrangement with the Reinforced Concrete Association.

The curriculum comprises lectures and laboratory instruction in the properties of concrete and its constituent materials; the design of concrete mixes and the proportioning, mixing, placing, consolidation and curing of concrete; the principles of reinforcement, and the use of formwork. The syllabus has been drawn up primarily to meet the requirements of resident engineers, foremen and clerks of works, and will include visits to works. The lecturer will be Mr. E. H. Collier, A.M.I.C.E. Classes will be held from 6 to 8 p.m. on Friday evenings, beginning on October 1, and the fee for the course will be £1. Students will be enrolled at the College from September 20-24. Further particulars may be obtained from the Head of the Engineering Department, Westminster Technical College, Vincent Square, London, S.W.1, or from the Secretary, The Reinforced Concrete Association, 94/98, Petty France, London, S.W.1.

Scottish local authorities are asked not to pay more than the District Valuer's maximum prices for the ACQUISITION OF LAND under the Town and Country Planning Act.

The Secretary of State for Scotland has asked local authorities to make sure that no prices are paid for land above the maximum which, in the District Valuer's opinion, represents a proper valuation of the land on the basis of the Town and Country Planning (Scotland) Act, 1947. This request is made in a circular from the Scottish Home Department. The Secretary of State points out that he will not be able to continue the practice of approving for loan sanction, the payment of prices which are at all above the Valuer's figure, nor will he sanction a loan for part of the cost if the local authority have paid an excessive price in total. This policy applies where land is acquired by way of feu or lease, as well as by any other method of acquisition. It is feared that if prices above those assessed by District Valuers are paid, it will offset the yield from development charges and undermine the structure of the Act.

★

New buildings are proposed in THE CATHEDRAL CLOSE AT SALISBURY.

The governing body of the Salisbury Diocesan Training College proposes to spend £250,000 to bring the buildings up to date and to provide 50 per cent. more accommodation. It is proposed to demolish the old Deanery and to erect new buildings designed in the Georgian style to fit in with the general atmosphere of the Close. The plans, which have been the subject of a public inquiry, were approved by the Ministry of Education in April, 1948, and given high priority because of the serious shortage of teachers.

The Town Planning Committee of the Salisbury City Council is in favour of the Old Deanery's being retained, but if it has to go, no new building, it is considered, should be allowed in front of the existing line of the Old Deanery. If the old building is retained, any new building on this site should be erected behind it. No final decision, it is felt, should be made by the Ministry of Health until a proper survey, as recommended by the Society for the Protection of Ancient Buildings, has been made.

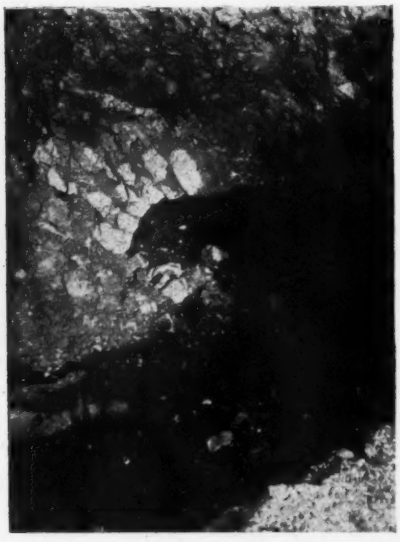
Mr. Thomas Sharp, town planning consultant to the City Council, in his evidence before a Ministry of Health inquiry, proposed that a new building should be erected in the Close adjoining the Cathedral on the choristers' playing field. The secretary of the Society for the Protection of Ancient Buildings said the Old Deanery was not distinguished for its architectural beauty or convenience.

★

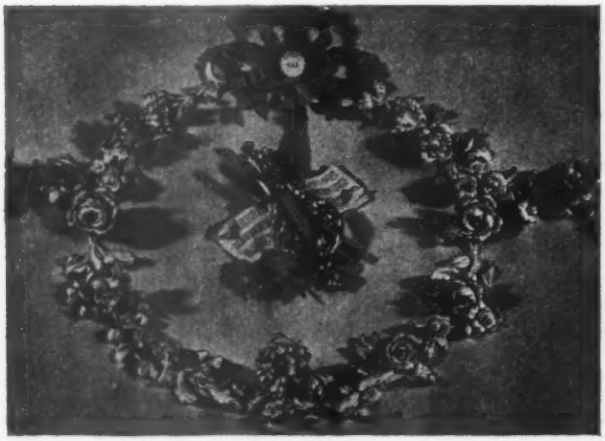
Work is to start immediately on IMPROVEMENTS TO THE LIVERPOOL STREET CENTRAL AND CIRCLE LINE UNDERGROUND STATIONS, which will cost approximately £250,000.

A completely new booking hall, 110 ft. long and 40 ft. wide, will be made beneath the surface of the public roadway in Liverpool Street. This will be connected with Central Line platforms by a triple escalator and to the Circle Line platforms and the street by passageways. The work is expected to take from two to two and a half years.

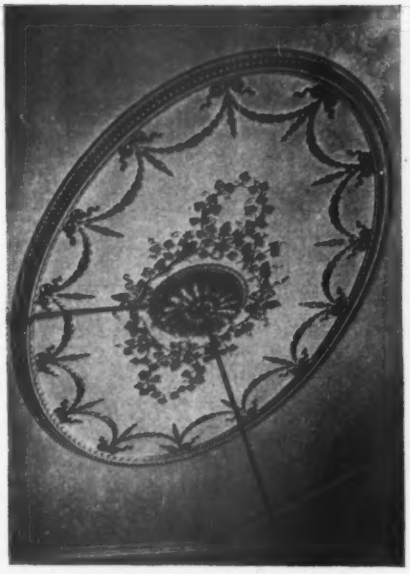




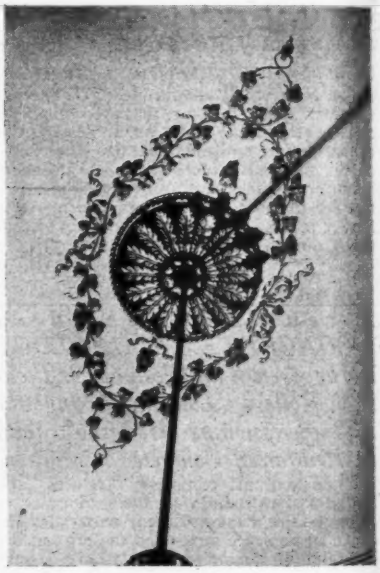
Left, work is proceeding on a new underground heating chamber for Canterbury Cathedral. The flue will be constructed horizontally from the chamber and carried up with the stack of 29a The Precincts, which was destroyed by enemy action. Right, a 12th century drain, unearthed, during excavation. It still carries surface water from the Cathedral.



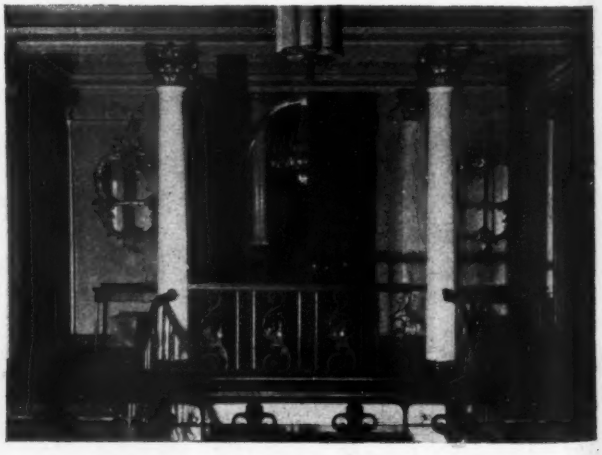












Doncaster Mansion House

This year is the bicentenary of Doncaster Mansion House. Designed by James Paine, of Wragby, building commenced in 1745, but was interrupted by the Scottish invasion under the Young Pretender. The Mansion House was also in the news last week when the King and Queen lunched there before seeing the St. Leger. This was the first time a reigning Monarch had visited the Mansion House since Queen Victoria went there in 1851. The photographs show, top left, a detail of the minstrels' gallery; top right, the ballroom ceiling; centre, the banqueting room ceiling, the minstrels' gallery and another detail in the banqueting room; bottom, two views of the staircase.

The Chester Branch of the National Farmers' Union is protesting against THE PROPOSED NEW TOWN *at* CONGLETON.

Vigorous protests against the proposals of the Ministry of Town and Country Planning for the construction of a new town at Congleton have been made at a meeting of the Chester branch of the NFU. The chairman, Mr. H. Charlesworth, Crewe, said he and others had toured the 3,000 acres upon which the proposed new town is to be constructed and found it is nearly all good agricultural land. He thought agricultural interests should be consulted before a Ministry decision is made.

Mr. W. G. Baldwin, Crewe, said he considers that the selection by the department of agricultural land at Mobberley and now at Congleton indicates that Government policy of using land not of a high agricultural value for new towns is not being carried out. Mr. E. H. Radley, Congleton, said the land proposed to be used includes some of the best in the county. Mr. Harold Woolley, Hatton Heath, vice-president of the NFU, thought the Ministry might do more by taking sites which are not ideal agriculturally. The meeting decided to refer the matter to the union's headquarters and to provide information for forwarding to the Ministry on the productive value of the land at Congleton.

★

Glasgow housing is TO BE PROVIDED WITH DISTRICT HEATING.

The Priesthill housing scheme, which lies beyond Pollok, on the south-west of Glasgow, is to be provided with a district heating system—the first to be adopted in the city's housing development. About 560 houses will be served by this central heating, which is to cost about £80,000 to install. The Corporation Housing Committee has accepted the offer of Matthew Hall & Co. Ltd. to supply and erect the plant for £68,486. A further expenditure of about £11,000 will be required, it is estimated, for the erection of boiler house and ducts.

★

On September 24 a Memorial Service will be held in London for CHRISTOPHER NICHOLSON *and* DONALD GREIG.

A joint memorial service has been arranged for the late Christopher David George Nicholson, M.A., F.R.I.B.A., and the late Donald Findlay Greig, A.F.C., who lost their lives whilst competing in the International Gliding Competitions in Switzerland. The service will be held at Christ Church, Down Street, London, W.1, at 12 noon on Friday, September 24.

NEWS IN BRIEF

A new Housing Plan in Italy is to come into operation soon. It is the result of a Government Bill to relieve unemployment by a large-scale housing programme which became law recently. The programme, known as the Fanfani plan, aims at providing 300,000 houses in the next seven years.

Conisbrough Castle, near Doncaster, first mentioned in the early part of the eleventh century, and recently scheduled as an ancient monument, is to be restored by the Ministry of Works at a cost of £20,000.

"Various standardized units are at present so forbidding merely because they are not designed to take the curse of repetition and are produced cheaply, ad libitum, ad nauseam, by the machine worker's labour in standardized "production-controlling-consumption" factory-units."—Frank Lloyd Wright.

THE USE AND ABUSE OF STANDARD PLANS

STANDARDIZATION is at the same time the fetish and liberator of the machine age. The product and justification of centralization, it can make possible at the same time greater flexibility and decentralization. Every government department and every local authority attempts to solve many of its administrative problems by preparing standard plans, whether it be for supplementary petrol coupons or hospitals. As administrative responsibilities are steadily accumulated more and more in the hands of public authorities, such standard plans become more significant and more rigid. Rightly used they can make much possible that was impossible before ; wrongly used they can stifle new ideas for many years to come.

The abuse of standardization was discussed in one of the JOURNAL's recent Round-Table discussions, from which the principle emerged that standards may be good or bad as they either liberate the artist by perfecting his tools or attempt to determine the form of his end product. In the first category is the standardization of the performance of materials and other building products and the economic mass production of building components of many kinds. In the second are large numbers of standard plans for houses, flats and schools, standard estate lay-outs and many standard details. The origin of the standard plan is to be seen in an entirely laudable desire, in the days when administrative responsibilities were laid upon the technically untrained, to make sure that the public did not suffer too much from such technical incompetence. Today, when the architect's client is either anonymous (the prospective tenant of a council house) or amorphous (the users of a public library or a greyhound track) it must often appear to the administrative official that he is the only person able to give instructions to the architect. What better way than the standard plan ?

This idea may still be sound as long as it is clearly understood that standard plans are the merest suggestive indications. Those who prepare such plans are generally insistent that they are merely indications, but unfortunately the administrator or technician who has to approve or disapprove proposals submitted to him by other authorities is bound to find it easier to use the standard as a yard-stick and approve those that approach it and disapprove those that are widely dissimilar. Minima have a tendency, when loan sanction is involved, to become maxima ; similarly standard plans (especially in housing), though intended as suggestions, have a tendency to become rigid forms, leaving the architect the responsibility of deciding little more than the type of brick to be used, the placing of the windows and the colour of the distemper. As new problems

arise, following, for example, extensions of the school-building programme and the building up of the new health service, responsible ministries will inevitably look round for new standard plans. This is understandable, and in some respects advisable, as architects will have difficulty in locating the user of such buildings and studying his problems intimately, but the standard plan must not become an excuse for not consulting those for whom the building is designed. Indeed, this is one of the major evils of the standard plan, that the user and occupier of the building has too frequently but little chance of saying what he thinks and feels except through his very tenuous relations with elected representatives.

The standard plans with which architects will be increasingly deluged can only be of value if they are regarded as an indication of requirements offered to the architect, and not as a measuring rod for a building project. If the architect's standard of professional ability and responsibility can be sufficiently raised there will be less danger of the standard plan becoming either a straight-jacket or an excuse for insufficient study of a problem.



The Architects' Journal

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NOTES & TOPICS

THOSE NEW TOWNS

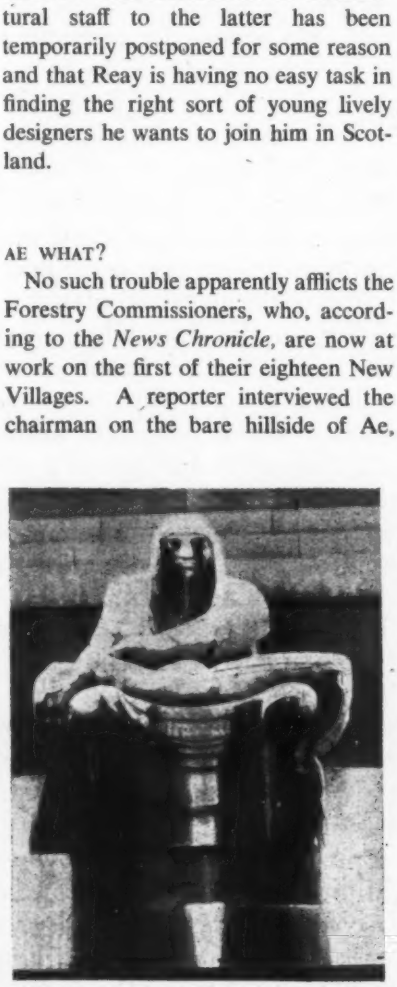
The news—see last week's AJ—that work is to start this year on Crawley, Stevenage, Harlow and Hemel Hempstead will be very welcome to those architects and their fellow-technicians who are particularly concerned. It must have been a hard job trying to keep an enthusiatic team going after last year's White Paper, but I suspect now that there will be fewer resignations and plenty more eager recruits to choose from. East Kilbride (Donald Reay) and Peterlee (Lubetkin) are not mentioned, I suppose because they are already under way, though I hear rumours that recruitment of architectural staff to the latter has been temporarily postponed for some reason and that Reay is having no easy task in finding the right sort of young lively designers he wants to join him in Scotland.

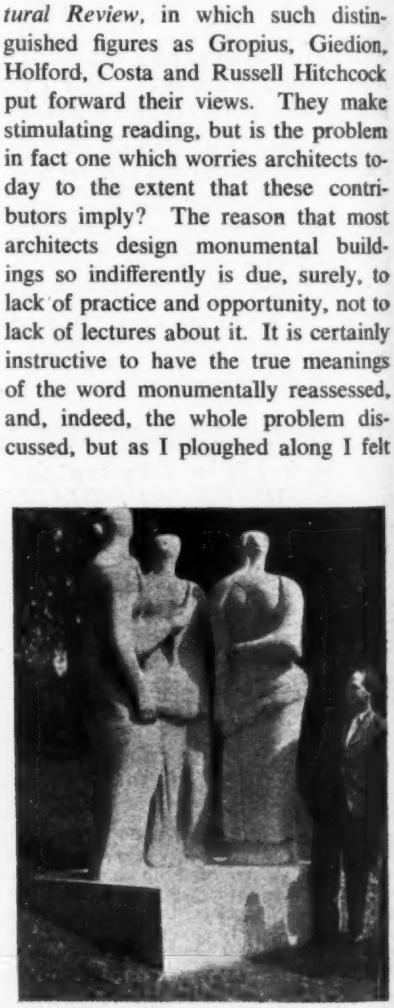
AE WHAT?

No such trouble apparently afflicts the Forestry Commissioners, who, according to the *News Chronicle*, are now at work on the first of their eighteen New Villages. A reporter interviewed the chairman on the bare hillside of Ae, Dumfries. "This is the place, I *think*," said the chairman. "The main street will run about here, with houses running out to that clump of heather, where the school might be. If we had to expand, we could run up that hillside, near the sheep." Here's the new Empiricism, if you like—as well as all that intricacy and value of accident the A.R. treasures so much (particularly if those sheep move while the chairman isn't looking). No architect mentioned (we've got a chairman, haven't we?), no sociologist (no mixing of classes is to be allowed at Ae), just the men of the trees, the heather, and the sheep—and you bet they aren't worrying their heads about monumentality.

MONUMENTAL BORE

One or two other people *are*, however—see the symposium on this subject in the current issue of *The Architectural Review*, in which such distinguished figures as Gropius, Giedion, Holford, Costa and Russell Hitchcock put forward their views. They make stimulating reading, but is the problem in fact one which worries architects today to the extent that these contributors imply? The reason that most architects design monumental buildings so indifferently is due, surely, to lack of practice and opportunity, not to lack of lectures about it. It is certainly instructive to have the true meanings of the word monumentally reassessed, and, indeed, the whole problem discussed, but as I ploughed along I felt





Left, Epstein's "Night" on the London Passenger Transport Headquarters, Westminster. Right, Henry Moore's trio of stone figures in the LCC Sculpture Exhibition in Battersea Park. See Astragal's note.





Top, a photograph from the MOH pamphlet "Our Gardens" showing the unifying effect on a street façade of open front gardens. Right, an example of the forbidding appearance of too high hedges surrounding small front gardens. See Astragal's note below.

strongly—as at Giedion's lecture the other day—that I was watching an artificial battle of historians and critics—a sort of formalized ballet which was pretty enough to watch (how skilful and learned are their pirouettes), but whose results in the end might only serve to make those of use who practise even more self-conscious than before when faced with this particular problem. Plenty of people think the opposite, of course. It was even recently suggested by a speaker at the AA that critics and historians are not parasites impeding the progress of architecture, but the leaders and the pioneers, without whose goadings and guidance the practising architect would be lost. Whichever view you hold, most of you will, I think, agree that the first thing necessary to keep everybody happy and interested is a great deal more building and perhaps not quite so many lectures.

MORE "HORRID SMOAKE"

Flogging their accustomed horse, the National Smoke Abatement Society has published two photographs, which I reproduce on the opposite page. "Night," I admit, seems to have suffered rather. Odd how easily one forgets the chorus of disapproval which greeted this effort—how long ago?—1929, I believe. The Battersea sculpture, on the other hand, has survived the soot so far, but I publish the photograph to remind you that there are only three days left if you haven't yet seen it. The show closes on Sunday the nineteenth.

OUR GARDENS

Innumerable inquiries, interested and disinterested, have suggested that the Englishman likes his house at least semi-detached and with a garden. In view of this, it is surprising how ill-kept are many of these "beloved" gardens, and how willing are the inhabitants of housing estates to damage trees, walk on the grass, root up flowers, and behave as though they had no idea of what a garden was for. There is no doubt that a pleasant, well-planted garden can soften the outlines of the grimmest council house, and even the dismal cliff-faces of many blocks of flats can be cheered up by creepers, window-boxes and other planting. To remind us of this, Mr. Bevan, who has got into the habit of saying many things that delight the ears of architects, has now launched a pamphlet called *Our Gardens*,* which consists mainly of pictures, two of which are reproduced on this page. There are many suggestions for reclaiming those distressed patches of beaten earth which so often surround houses, and a good feature of many of them is that they will appeal to the lazy gardener, as they rely upon the use of shrubs and foliage plants rather than flowers. It is probably impracticable at present to advocate the abandonment of front-garden fences and hedges, for no garden thus exposed would survive long, but the appeal to preserve trees on housing sites should be vigorously addressed to housing authorities as much as to their tenants. There is nothing some borough surveyors like so much as a site stripped of everything growing—top soil as well if possible.

*

While good gardens are good, better houses would be better, and though it is possible to do something to relieve the worst features of ugly houses, it would be better still to have good gardens surrounding beautiful houses. There are still plenty of fields for Mr. Bevan to conquer, and so far he has but shouted the battle slogans.

ASTRAGAL.

Our Gardens, published for the MOH by HMSO 1s.

LETTERS

Percy J. Waldram, F.R.I.C.S.

G. B. J. Athoe (Secretary I.A.A.S.)

Redevelopment of Central Urban Areas

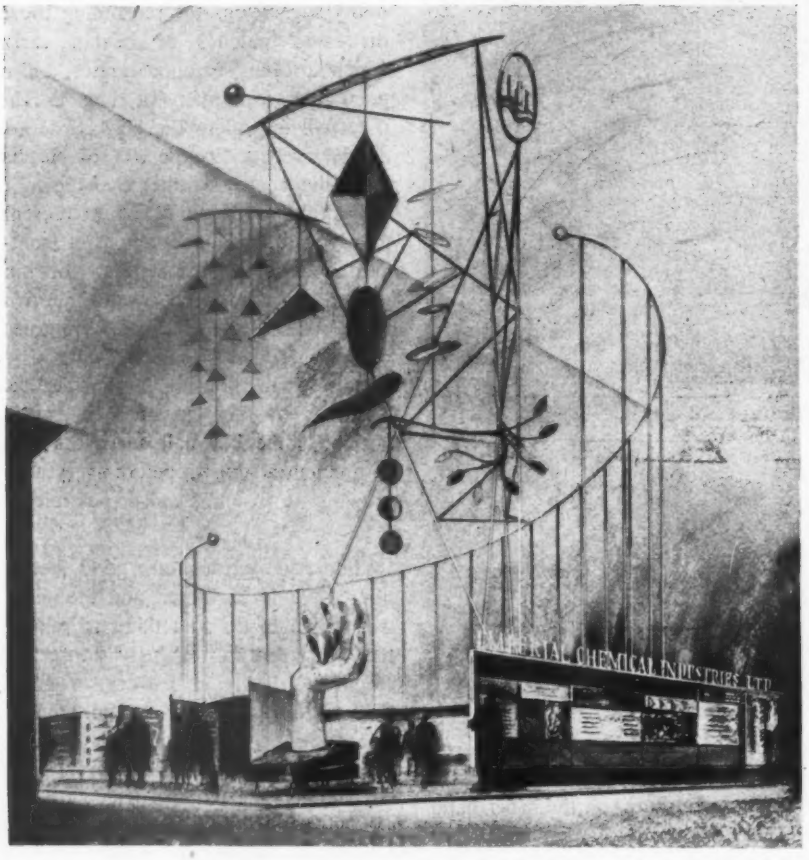
SIR,—A recent publication by the Ministry of Town and Country Planning* directs local authorities to make a drastic and important change in the method of preventing, by town planning regulations, undue obstruction to light and air by post-war urban buildings. In place of the simple, direct limitations on building height and permissible degrees of vertical obstruction hitherto obligatory, it substitutes indirect control by an obligation to allow any obstructed interior, actual or potential, to comply with an official code of functional requirements defined by minimum penetration of a given value of daylight factor at table height through specified fenestration.

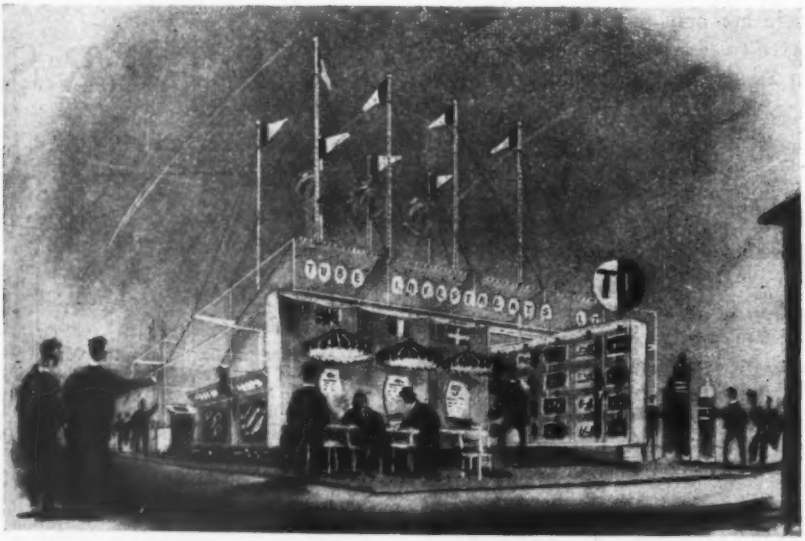
Only last year warm Ministerial approval was reported of a town planning report by Dr. Holden and Professor Holford for the City of London.† This recommended that the official method of indirect control (which incidentally limited permissible obstruction

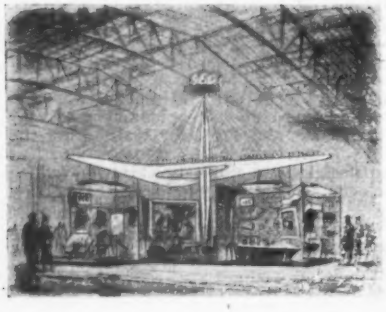
*The Redevelopment of Central Areas. HMSO 12s. 6d. 1947.

†The Reconstruction of the City of London. Final Report. 1947.

BRITISH EXHIBITION AT COPENHAGEN







This trade exhibition at Copenhagen, which will be open between September 18 and October 3, has been organized by the British Import Union in Denmark in co-operation with the Federation of British Industries, and is supported by the Governments of Great Britain and Denmark. Top, the I.C.I. Stand, designed by Basil Spence. This forms the central feature of the hall and covers an area of nearly 2,000 square feet. Centre, the stand for Tube Investments Ltd., designed by Hugh Casson. Left, a stand for the General Electric Company, by John Landsdell. These stands have been pre-fabricated in the Alexandra Palace, London, by the City Display Organisation, before being shipped to Copenhagen.

to the equivalent of 35° across streets, *i.e.*, that presented by a row of typical suburban villas) should not be made obligatory until the advantages claimed for it had been proved by its voluntary adoption by wise ground landlords. In the meantime it was suggested that the criterion of permissible obstruction across streets in the City should be the vastly different one of 56° (1½ to 1).

The object of indirect or code control is to enable full advantage to be taken of the possibilities of considerably reducing obstruction, even to the equivalent of 35°, by the modern system of design known as "open planning." It is admitted, however, that open planning is only possible on large wide sites, whereas the great majority of urban sites are small and narrow.

Also code control depends upon the calculated position of daylight factor contours; and as these demand an amount of tedious work which is clearly impossible, it is officially suggested that compliance with the code should be tested by certain special protractors. It is admitted, however, that these are only correct for interiors which are wide enough to require more than one window 10 ft. wide or its equivalent in narrower openings. For all interiors of lesser width—and they would certainly be numerous in towns, if not in a majority—the use of the protractors officially recommended, therefore, would tend to legalize the very obstructions they are intended to prevent. These are fatal defects in a compulsory official method of control, but possibly the most amazing feature of this directive relates to the official instructions for making compliance with the code compulsory along all boundaries of urban sites, many of which are, of course, lit from the front and back only, with imperforate flank walls. This is to be effected by the use of a special series of protractors set out to be applicable to the centre line of street frontages so that they purport to indicate the effect on interiors of twice that distance away. An illustration is given of the recommended development of a large site, down the middle of which is planned a long new building 100 feet high, set back about 60 feet from a flank boundary. This would not, of course, enable interiors on the adjoining site along that boundary to comply with the code, but the extraordinary and very convenient assumption is made that after a site is developed with buildings set back from the boundaries of adjoining sites, new buildings on those sites will be set back similarly; so that the nearest interior to the 100 ft. building shown would be 120 ft. or more away, and the design, therefore, complies with the code.

No indication whatever is given as to how such neighbourly consideration is to be enforced, especially if the adjoining site is only, say, 50 ft. wide. Qui vivra verra!

Edgware. PERCY J. WALDRAM.

Proposed Competition for Carpet Designs

SIR,—The IAAS has been invited to conduct a competition for the purpose of obtaining designs for carpets of British manufacture, and it is proposed that the competition should be open to all architects (and bona fide architectural students) in the British Empire. The prizes offered would be of a substantial nature.

Before making any further move in the matter, my Council wish to be assured that the nature of the proposed competition would appeal to the profession and would receive a substantial measure of support by way of entries.

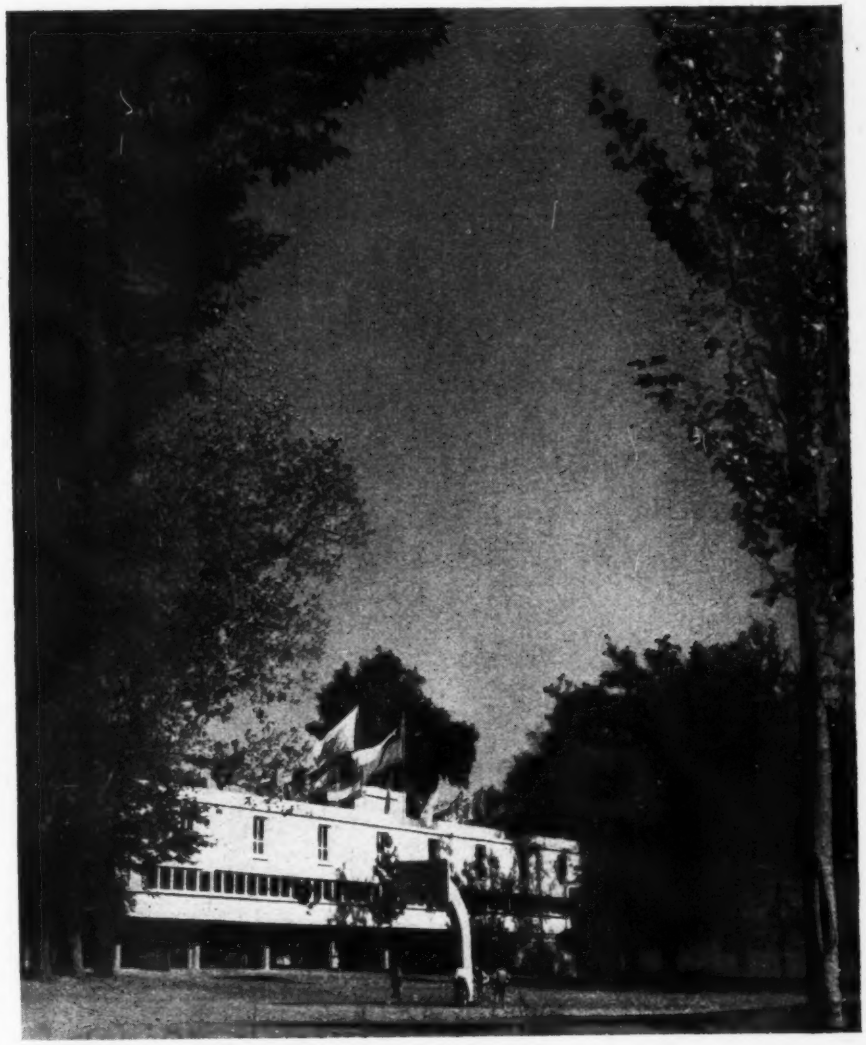
May I therefore seek the hospitality of your columns in inviting all architects and architectural students who may be interested in the proposal to send me their names and addresses.

G. B. J. ATHOE,
Secretary, the Incorporated Association of Architects and Surveyors.

London.

KEY FOR SITE PLAN (below)

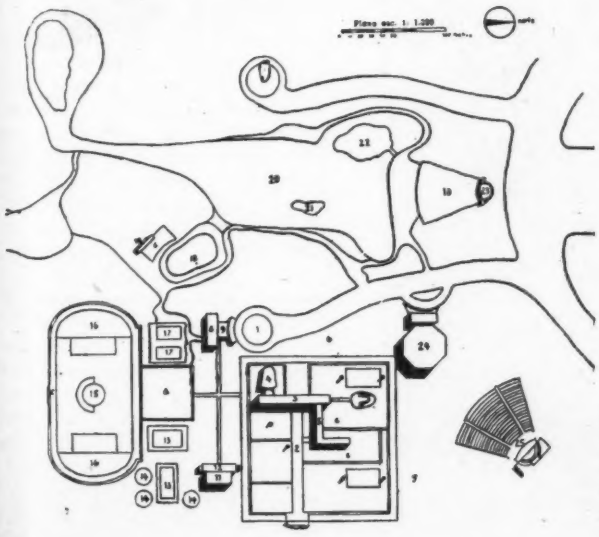
1 entrance
2 avenue
3 adult wing
4 cinema and meeting hall
5 children's wing
6 children's playground
7 the park
8 restaurant
9 children's dining room
10 dance hall
11 gymnasium
12 vestibule and baths
13 basket ball
14 various games
15 football
16 sports ground
a gymnastic performances
b spectators
c athletic track
17 tennis courts
18 fish pond
19 cloak room
20 lake
21 aquarium
22 island
23 auditorium
24 circus
25 open air theatre



RECREATION CENTRE

AT SANTIAGO, CHILE

DESIGNED BY GABRIEL RODRIGUEZ



Top, the adult block from the north-west, left, the site plan showing the original project as contemplated.

This building is the only part which has been realized of a much larger scheme inaugurated by the late President of Chile, Don Pedro Aguirre Cerda, for his institution called "Defence of the Race and Improvement of Leisure." The building consists of a club, a school and workshops. The main block contains the social club for adults,

GROUND FLOOR

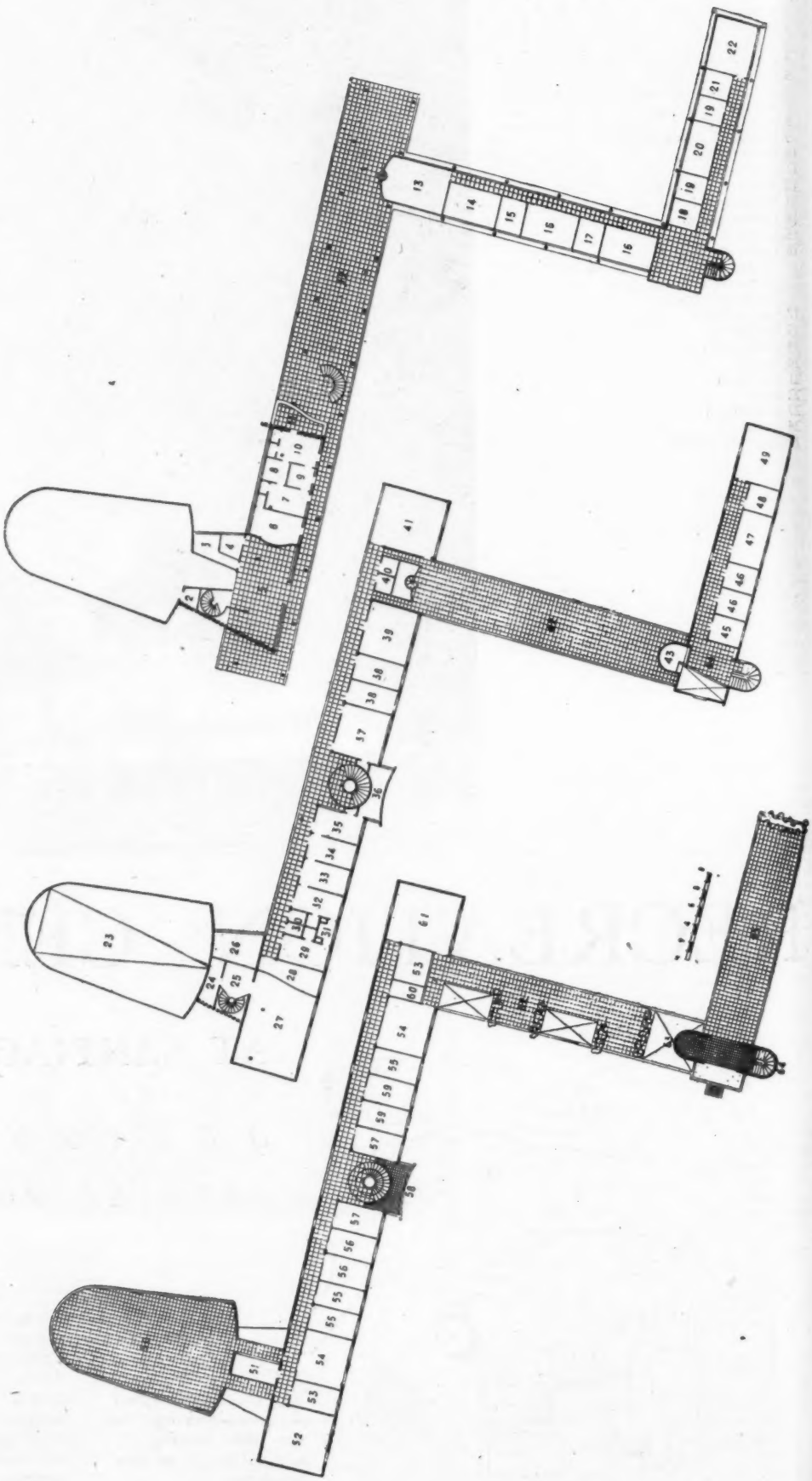
1 theatre
2 tools
3 women's cloakrooms
4 men's cloakrooms
5 exhibition hall
6 office
7 director
8 office
9 waiting room
10 secretary's office
11 information
12 covered walk
13 kindergarten
14 cradle room
15 rest room
16 children's bath
17 changing room
18 toilet
19 workroom
20 classroom
21 library
22 sitting room

FIRST FLOOR

23 upper part of cinema
24 projector
25 vestibule
26 ventilation
27 exhibition hall
28 dentist
29 physician
30 toilet
31 chemist
32 dispensary
33 waiting room
34 visitors' room
35 secretary's office
36 records
37 ping-pong
38 games room
39 library
40 toilet
41 playroom
42 roof garden
43 enquiry office
44 vestibule
45 toilet
46 handicraft
47 classroom
48 library
49 lounge

SECOND FLOOR

50 roof garden
51 toilet
52 lounge
53 laboratory
54 classroom
55 study
56 workshop
57 professors' study
58 terrace
59 workroom
60 toilets
61 lounge
62 roof garden
63 porch
64 vestibule
65 roof garden





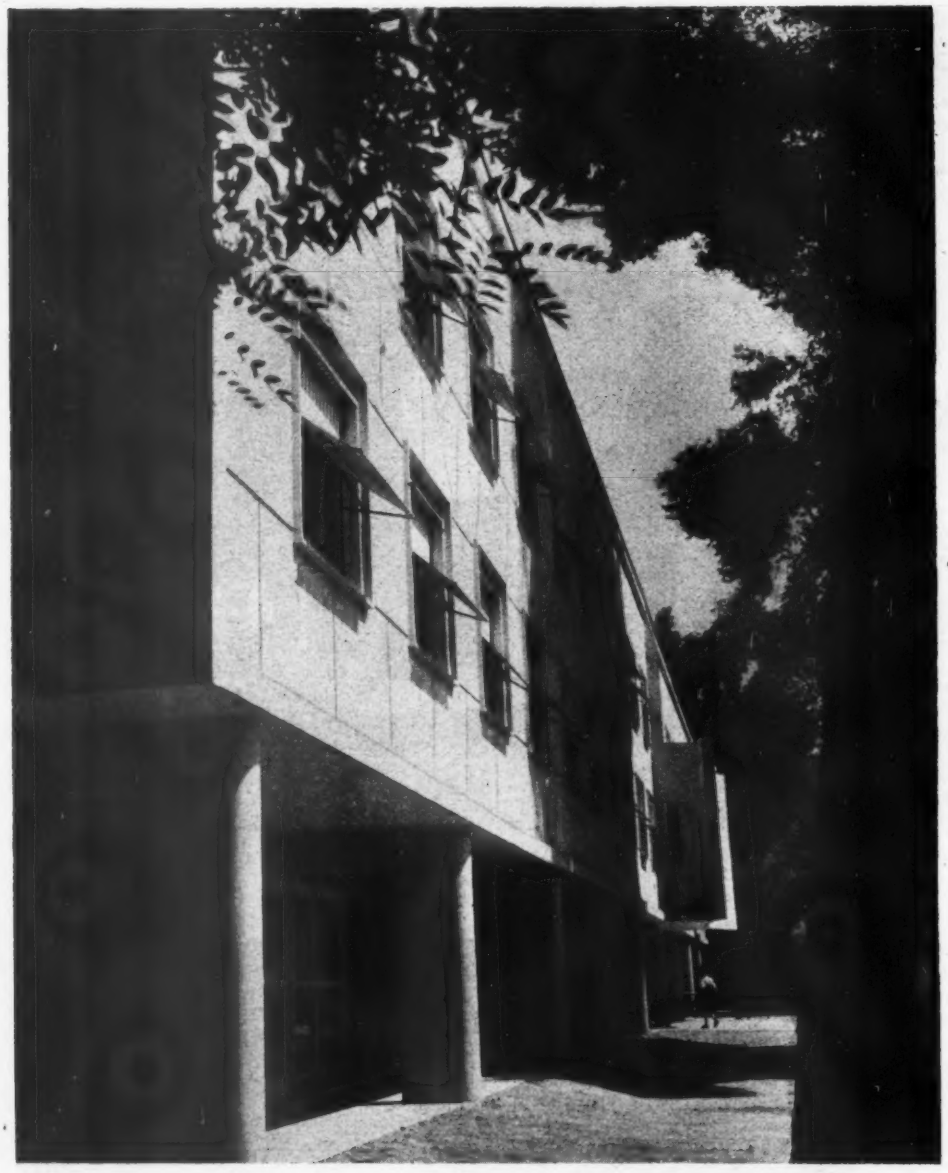
Above, the children's centre, with two floors of roof garden over. Right, the children's centre and the end of the adult block from the north.



with a cinema and assembly hall at one end, and the children's rooms in an L-shaped wing at the other end. Except for the administrative offices, the ground floor of the main block is open and consists only of columns supporting the floors above. The first floor has the medical and dental rooms and dispensary on one side of a central stair and recreation rooms and library on the other. The second floor consists of laboratory, classrooms and workshops and there is a roof garden over the cinema and over the children's wing.

A conspicuous feature of the design is the large amount of covered terrace and roof garden: the maximum number of trees was retained on the site. The construction is of reinforced concrete with stone in-filling.

RECREATION CENTRE AT SANTIAGO

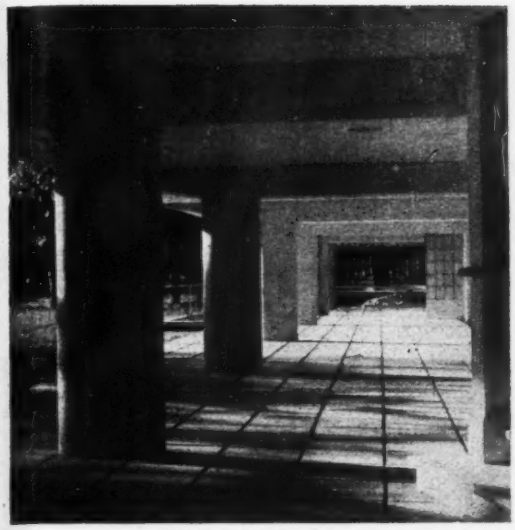


Left, the east front of the adult block. Below, left and right, the cafeteria.



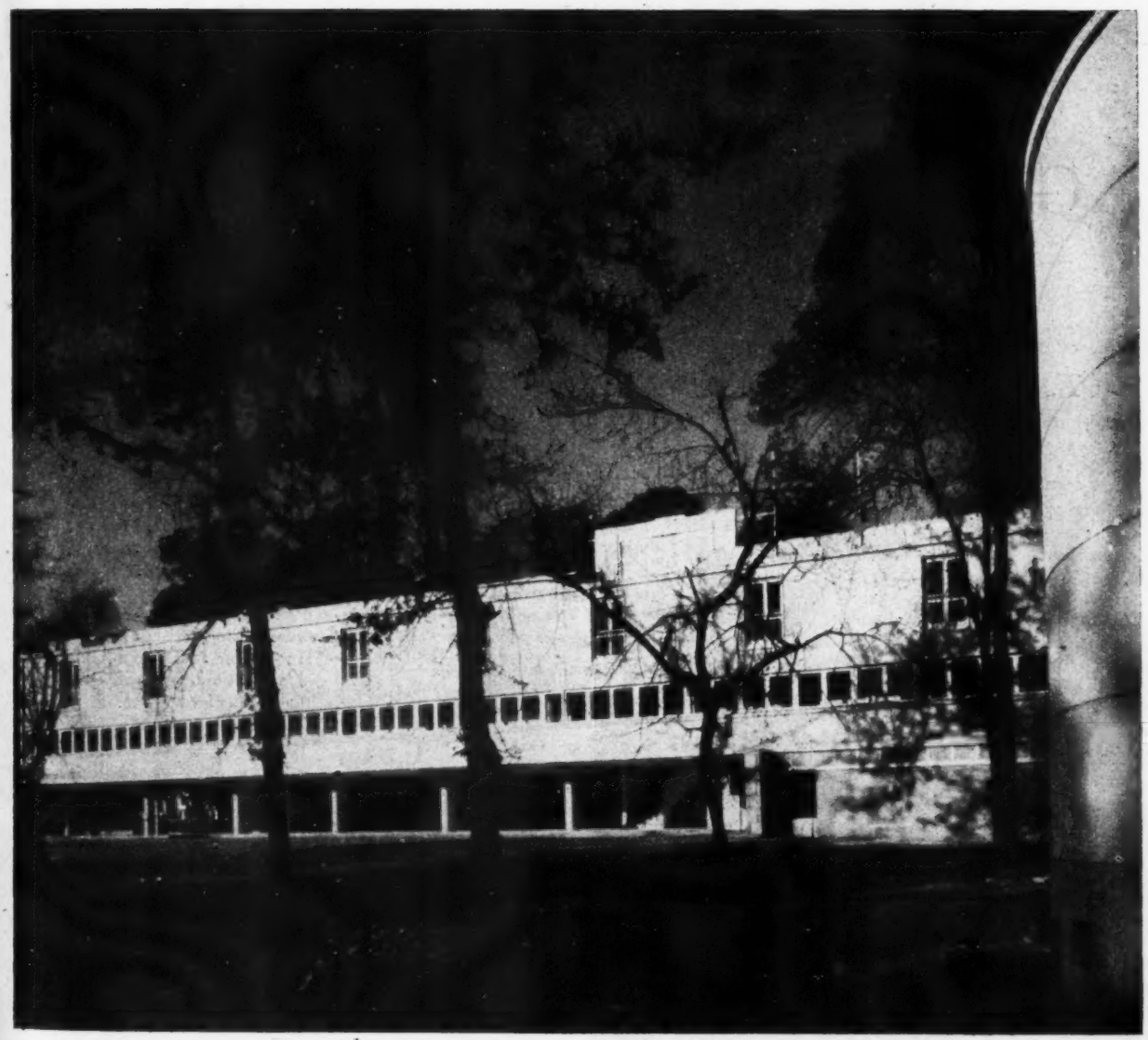


RECREATION CENTRE AT SANTIAGO:





Above, left, the open ground floor, right, the corner of the children's centre. Below, the adult block from the south-west



DESIGNED BY GABRIEL RODRIGUEZ



From the west.

AGRICULTURAL COTTAGES

AT WOTTON-UNDER-EDGE, GLOUCESTER

BY T. H. B. BURROUGH

& F. L. HANNAM

GENERAL—To keep the roof and eaves low, an off centre ridge was chosen. This also gives a large storage area in the roof, and reduces the cube.

PLAN—A wash room and store, included in the 1,000 sq. ft. for economy, is planned beside the back door to enable the farm worker to remove gum boots and wash before entering the living room. The scullery is in the front so that the housewife can see anyone coming to the front door.

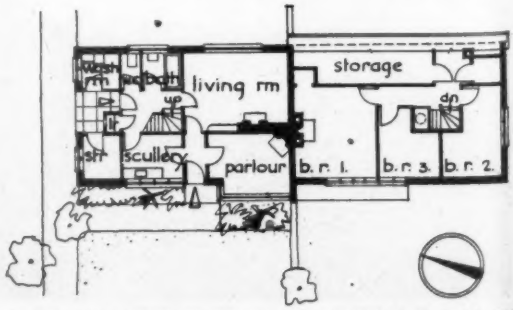
CONSTRUCTION—The walls are of 4 in. concrete blocks cast on the site, coated with stucco which was applied with a wood float and finished with sacking. The roof is of double rolled Roman tiles on felt. Eaves and window frames are of precast concrete, casements steel, sills of quarry tiles. Ground floor is concrete with asphalt finish, the first floor is timber. Hot water is from a back boiler in a combination grate.

The contractor was S. Grimes.

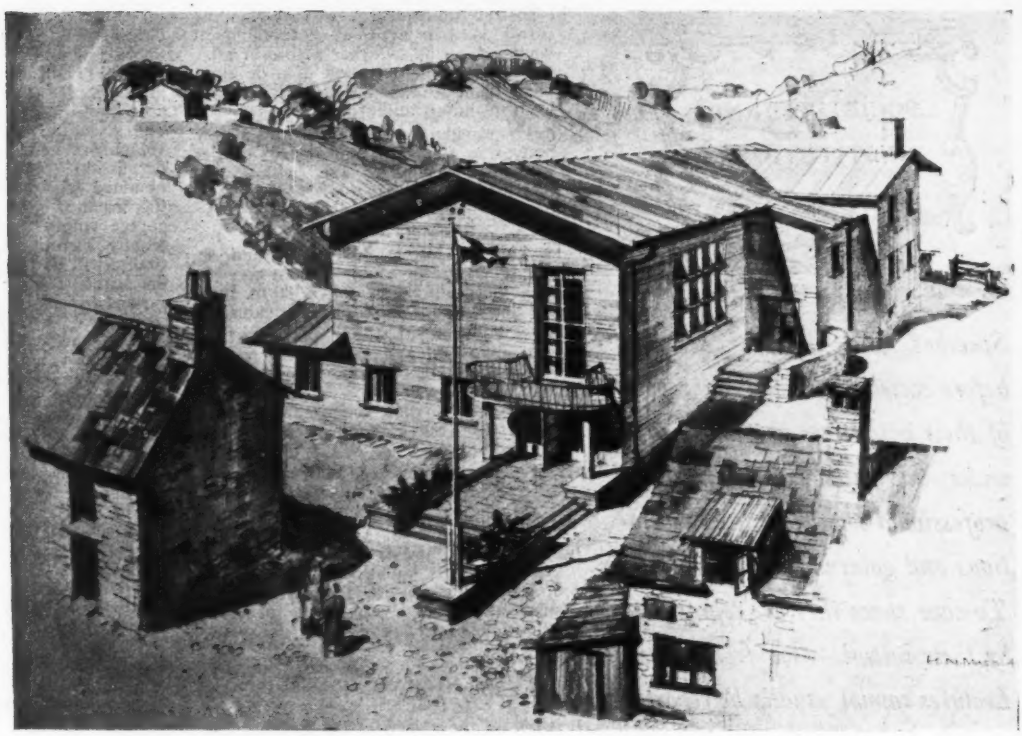
For sub-contractors see page 278.

Below, from the east.





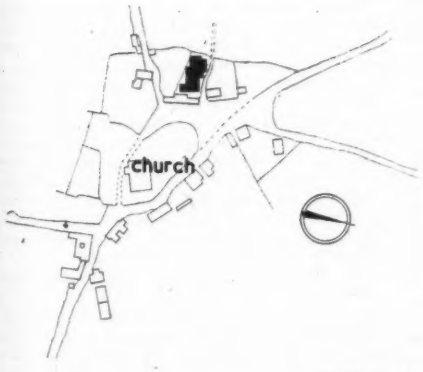
GROUND AND FIRST FLOOR PLANS [Scale $\frac{1}{8}$" = 1'0"]



COMMUNITY CENTRE

AT LLANNEFYDD, DENBIGHSHIRE

BY HERBERT THEARLE



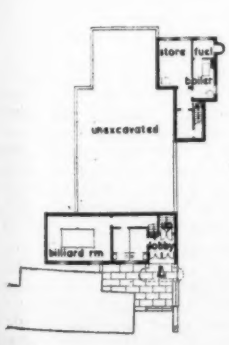
SITE PLAN

GENERAL—The building is to serve Llannefydd and the surrounding villages for club and cultural purposes. It has to comprise club rooms and assembly hall, the latter being capable of an increase from 350 to 500 when required. The sections of the building (three in all) are capable of being used and heated separately and may be erected in two parts should it be found that tenders for the whole are too high.

SITE—This is 900 ft. above sea level in a beautiful part of N. Wales, and is small, irregular, and slopes in two directions. It is fronted by cottages and for the time being only one cottage can be removed. Three of the others will be removed later but the remaining one is separately owned. For this reason the main entrance is asymmetrically placed.

PLAN—The main club entrance is from the footpath to the north. The club rooms act as retiring rooms when the stage is in use and the stage itself can be converted into an extra room if required. A combination grate in the kitchen is to provide domestic hot water during summer time when the boiler is not in use.

CONSTRUCTION—This is to be of brick and local stone. Roofs to be spanned by light trusses sheeted with insulating board and copper.



BASEMENT



GROUND FLOOR



UPPER GROUND FLOOR
[Scale $\frac{1}{16}$" = 1'0"]

SOCIETIES AND INSTITUTIONS

Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.

TCPA

Desmond Heap

August 24. At the TCPA Summer School, Cambridge. LEGAL AND ADMINISTRATIVE ASPECTS OF THE TOWN AND COUNTRY PLANNING ACT, 1947, AND ITS REGULATIONS AND ORDERS.

Desmond Heap: It is impossible to exaggerate the importance of July 1, 1948, from the point of view of the local planning authority, the landowner or the building developer, for on that date the Town and Country Planning Act, 1947, came into full force and effect. It contains some of the most drastic and far-reaching provisions yet enacted affecting the ownership of land (which for this purpose includes buildings) and the liberty of an owner to develop and use his land as he thinks fit. Indeed, after July 1, 1948, ownership of land, generally speaking, carries with it nothing more than the bare right to go on using it for its existing purposes. The owner has no right to develop it, that is to say, he has no *right* to build upon it and no *right* even to change its use, and if he sells it he can expect to get only its existing use value, because whatever development value the land had is now expropriated by the State. The new Act does not nationalize the land; what it does is to nationalize the development value in land.

OBJECTS OF THE ACT

The objects of the Act are:—

(i) To replace the existing system of planning control through rigid planning schemes by a new system of flexible development plans prepared by a greatly reduced number of planning authorities and subjected to constant review;

(ii) To prohibit (with exceptions) the carrying out of any kind of development whatsoever, and, whether before or after the coming into operation of a development plan, without the permission of a local planning authority;

(iii) To provide for the levying by a new body, the Central Land Board, of development charges payable (with exceptions) on the carrying out of any kind of development;

(iv) To expropriate for the State the development value in all land and, in consequence, to enable landowners to make hardship claims on a £300 m. fund for loss of the development value in their land;

(v) To give local authorities wider powers for undertaking development themselves than they have ever previously held and, as corollary to this, to give them wider powers for the compulsory acquisition of land;

(vi) To provide increased financial assistance to local authorities to enable them to discharge their functions under the Act; and

(vii) To amend the law relating to compensation for compulsory acquisition of land by abolishing the 1939 standard and substituting the new principle of compensation based on existing use value only.

DEVELOPMENT AND DEVELOPMENT CHARGES

It is one of the objects of the Act that any increase in the value of land caused by its development shall, generally speaking, go to the State in the form of a development charge. Accordingly, subject to certain exceptions, no development of land may be undertaken until the Central Land Board have issued their certificate that the amount of the development charge payable in respect of the development has been either paid to the Board or has at least been secured to their satisfaction.

It is to be observed that a development charge becomes payable only when the rise in the value of land is associated with the development potentialities of the land itself and any rise in value occurring, irrespective of such potentialities, is untouched by the Act and left for the benefit of the owner of the land. Thus, if a landowner is granted permission under the Act to develop his agricultural land by changing its use and turning it into a building estate, there will be an increase in the land value by reason of the more intensive use which is made of the land. This increase in value will be collected by way of a development charge before the change in the use of the land takes place. On the other hand, if a dwelling-house is purchased for £1,000 and then, owing to a variety of extraneous circumstances not constituting development of the house itself, but being, for example, the construction of a nearby railway station or the establishment of a convenient omnibus route, or the provision of readily accessible electricity, gas or piped water services, the value of the house as a house rises to £1,500, this increase in value, which will be obtained by the owner when he sells the house, may be retained by him because there has been no development of the house itself. In other words, to speak of the rise in the value of the house *as a house* is simply another way of expressing a rise in the *existing use value* of the land. Any rise in the existing use value of land remains with the owner of the land. It is *development value* which is transferred to the State.

"Development" is very widely defined in the Act and means not only building or rebuilding operations but also the making of any material change in the use of land or buildings. Changing a house into an office will constitute development for which planning permission must be obtained and a development charge paid. There is no appeal against the amount fixed by the Central Land Board by way of development charge. Changing a large, unmanageable house into flats (whether with or without structural alterations) constitutes development and cannot be done without permission, although if permission is obtained no development charge will in this instance be payable. The erection of a garage within the garden of a house will require permission, but no development charge will be payable in this case, provided the cubic content of the house plus the garage does not exceed by more than one-tenth (or 1,750 cubic feet, whichever is the greater) the cubic content of the house itself.

Generally speaking, all development will carry liability for development charge, but there are exceptions, which fall under four categories, as follows:—

(i) Development within the tolerance of the Third Schedule to the Act, which tolerance is materially extended by the Use Classes for Third Schedule Purposes Order, 1948 (SI. 1948, No. 955);

(ii) "Dead ripe" land under S. 80 of the Act;

(iii) Unfinished buildings in course of erection on July 1, 1948, as provided for in S. 78 of the Act; and

(iv) Development falling within the Development Charges Exemptions Regulations, 1948 (SI. 1948 No. 1188).

If development by a private individual cannot be brought within one or other of the foregoing categories a development charge will be payable. The amount of the charge will, under the Development Charge Regulations, 1948 (SI. 1948 No. 1189) be equal to the full amount of the increase in the value of the land or buildings caused by the grant of the particular planning permission in question. This is the general principle under the Development Charge Regulations and it can only be departed from in exceptional cases.

CHANGES OF USE

Many changes of use are excepted from the definition of development by the Use Classes Order, 1948 (SI. 1948 No. 954). Thus the changing of a butcher's shop into a baker's shop, a greengrocer's shop or a hairdresser's shop (but not, be it noted, into a fried fish shop, a tripe shop or a cat's-meat shop!) does not constitute development; nor does the changing of a solicitor's office into an accountant's office or into a bank. Changes of this kind do not constitute development and accordingly the need for planning permission and the liability for development charge do not arise.

The Use Classes Order, 1948, comprises twenty-two use classes. The use of a building for any purpose specified in one of the use classes may be changed to any other purpose falling within the same use class without the need of any planning permission. This is because a change of use which still leaves the use within its original use class does not constitute development at all. In other words, the use may change about within the confines of the particular use class to which it belongs to its heart's content. What it may not do is to leap from one use class to another use class unless, of course, it can be argued that notwithstanding such a leap the change does not constitute a *material* change as mentioned in S.12(2) of the Act. Indeed, when considering the Use Classes Order, 1948, there must constantly be kept in mind the overriding principle, established by the Act itself, that change of use constitutes development only if the change is a material change. Provided the change keeps itself within the confines of any use class specified in the Order the question of whether the change constitutes a material change is put entirely beyond argument: it doesn't. But if the

ALUMINIUM AND ITS ALLOYS: APPLICATIONS 1.

Alloy designations are according to BS/STA 7 (1945) Services Schedule of Non-Ferrous Metals and Alloys P.D. 364, Group 6—Aluminium and its Alloys—published by the British Standards Institution. A series of Standards for General Engineering is in preparation.

Application	Required Characteristics of Metal	Recommended Aluminium or Aluminium Alloy and Manufactured Form	Surface Treatment or Finish— General Remarks
Structural : roof trusses, joists and columns.	High strength, light weight, durability, incombustibility. Available in a wide range of shapes, lengths and sizes.	Extruded sections, pressed or formed strip, forgings and castings. AW.10 AW.12 AW.15 AW.17 suitable where high strength is required. AW.6 AW.10 suitable for use where corrosion resistance is of primary importance. AC.4 AC. 5 AC.6 AC.7 AC.10 suitable for cast components and fittings.	AW.12 AW.15 AW.17 should be painted. AW.6 AW.10 may be left unpainted except under severe conditions. AC.4 AC.5 AC.6 AC.7 normally left untreated except under severe conditions of service.
Roof coverings : fully-supported and self-supporting, *e.g.*, tiles, corrugated and flat sheets.	Fully-supported sheets : ease of working and shaping. Self-supporting sheets : medium strength and ease of working. Roofing tiles : easy casting or working properties. In all cases : light weight, durability, incombustibility, satisfactory appearance.	Fully-supported sheets : A.4 soft, AW.3 soft, AW.4 soft. Self-supporting sheets : AW.3 ¾-hard, AW.4 ½-hard, AW.15G AW.15H. Tiles : wrought A.4 ½-hard, AW.3 ¼-hard, AW.4 soft ; cast AC.5 AC.6.	Normally left untreated, except when in contact with other building materials. May also be chemically treated.
Flashings, soakers, aprons, etc.	Good ductility and softness for easy working on site, durability.	Strip and sheet, pressed, rolled or hand-formed. Machine-pressed or rolled : A.4 ½-hard, AW.3 soft, AW.4 soft, AW.10. For hand-working : A.4 soft, AW.3 soft, AW.4 soft, and A.1 where complicated working is involved.	Normally left untreated, except when in contact with cement, lime mortars and other building materials.
Wall cladding and external panelling.	Medium strength, light weight, ease of working, durability, incombustibility, satisfactory appearance.	Strip and sheet, pressed or rolled : A.4 AW.3 ¾-hard, AW.4 ½-hard, AW.10.	Normally left untreated, except when in contact with other building materials. May also be chemically treated.
Glazing bars for roof lights and canopies.	Medium strength, ease of extrusion to complex shape, durability.	Extruded sections : A.4 AW.3 AW.4 AW.9 AW.10.	Normally left untreated, but may be painted or anodised, depending on environment and also the finish required.
Door and window subframes.	Medium strength, ease of casting, extrusion or strip forming, durability, satisfactory appearance.	Strip, pressed or rolled: A.4 ½-hard, AW.3 ¾-hard, AW.4 ½-hard, AW.9 AW.10. Cast : AC.2 AC.4 AC.6.	Normally left untreated, but may be painted, anodised or chemically treated depending on environment and also the finish required.
Casement and sliding sash windows.	Medium strength, light weight, ease of casting, extrusion or strip forming, durability, satisfactory appearance.	Extruded sections : AW. 5 AW.9 AW.10. Cast : AC.2 AC.4 AC.6.	May be anodised or chemically treated depending on environment and also the finish required.

10.B1 ALUMINIUM AND ALLOYS: APPLICATIONS 1.

This Sheet is the first of two summarising the applications of aluminium and aluminium alloys. It also describes the characteristics of the material. A continuation of the summary of applications is given on Sheet 10.B2 together with a description of the forms in which the material is available, surface finishes and a list of manufacturers who are members of The Aluminium Development Association and who supply aluminium and aluminium alloys in their many forms.

A selection of alloys for each special purpose has been given as a guide but the suppliers should be consulted regarding final choice of material.

Characteristics of Aluminium and Its Alloys

Lightness : The weight of aluminium and its alloys is approximately one-third that of steel, and a smaller fraction still of the weight of copper and its alloys. This is a major advantage in all cases where handling, transport, erection and height are important factors in an undertaking.

Ductility : Pure annealed aluminium is soft, of low strength and very ductile ; it is therefore used for items such as fitted roofs, flashings and welting. The simple alloys combine ductility with increased strength ; the range of useful applications is thus widened.

Strength : By alloying with elements such as copper, manganese, magnesium and silicon, medium and high-strength materials have been evolved for use as structural components, which combine a high strength-weight ratio with good durability. The alloys are strengthened by cold-working or by the heat-treatment process known as age-hardening.

Modulus of elasticity : Aluminium and aluminium alloys have a low modulus of elasticity in comparison with steel and this important difference offers special advantages in structural design, promoting increased resilience and an ability to absorb impact shock. Where stiffness is essential, it is obtained by increasing the moment of inertia of a section as compared with steel.

Durability : Immunity to the action of the weather is a basic characteristic of these materials. Special alloys and treatments such as anodising have been developed to enhance this high resistance, and to ensure permanence in all environments, including marine and industrial atmospheres. Maintenance problems and costs are therefore much reduced. It is important that permanent fittings should not be in contact with copper or copper alloys where moisture is present. An insulating medium such as an approved paint coating, or fibre, should be interposed and will eliminate the possibility of galvanic corrosion. Good practice for material in contact with concrete mixtures is to coat the surface with bitumen before fitting.

Weathering : The pleasant natural colour of the metal is retained for long periods, and may be maintained indefinitely by periodic washing and cleaning. In industrial atmospheres the accumulation of a black surface deposit may be prevented by the same regular maintenance. In some instances, particularly in marine atmospheres, a white deposit may form, often spotted in appearance : this is a superficial attack and tends to cease in the course of time.

Paint treatment : Painting of light alloy structures may be specified for decoration, and at the same time for added protection. In order to ensure permanent adhesion of the paint the metal surface should in all cases be chemically pre-treated : there are recognised treatments of a simple nature such as the M.B.V., Pylumin, and Deoxidine treatments. Anodised surfaces are excellent for painting. Most normal priming paints are suitable, but the fullest protection results from using a primer containing a proportion of zinc chromate in the pigment. Paint manufacturers now supply these primers. Lead-base paints are not recommended as primers. Finishing coats of all descriptions may be used, provided they are compatible with the priming coat.

Further Information

The Aluminium Development Association maintains a Technical Advisory Service and Information Bureau which is available to answer questions and advise on technical problems : Information Bulletins on fabrication, welding, riveting, surface finishing, etc., are also available on request.

This series of Sheets on aluminium and aluminium alloys gives general data on the properties of the materials and their use in various building applications.

Compiled from information supplied by :

The Aluminium Development Association.

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ALUMINIUM AND ITS ALLOYS: APPLICATIONS 2.

Alloy designations are according to BS/STA 7 (1945) Services Schedule of Non-Ferrous Metals and Alloys P.D. 364, Group 6—Aluminium and its Alloys—published by the British Standards Institution. A series of Standards for General Engineering is in preparation.

Application	Required Characteristics of Metal	Recommended Aluminium or Aluminium Alloy and Manufactured Form	Surface Treatment or Finish— General Remarks
Internal wall and ceiling panels and partition covering.	Medium strength, light weight, incombustibility, satisfactory appearance, rolled surface finish suitable for decorative requirements.	Sheet : pressed, rolled and embossed. A.4 AW.3 AW.4 AW.10 AW.15G AW.15H.	Pattern rolled, pressed design ; may be painted, stove enamelled, anodised, anodised and dyed, lacquered, matt or etched, according to finish required.
Hardware, *e.g.*, window and door fittings.	Medium or high strength, ease of casting, extruding, hot-stamping, etc., durability.	Drop forgings, pressings, stampings : AW.6 AW. 9 AW.10. Cast : AC.2 AC.4 AC.6.	Natural, painted or anodised depending on environment and also the finish required.
Sinks, draining boards, lavatory basins, wastes and traps.	Medium strength, ease of casting or working, durability, satisfactory finish with ease of cleaning.	Pressed from sheet or cast. Sheet : A.4 AW.3 AW.4 AW.5. Cast : AC.2 AC.4 AC.6.	Pressed : polished or matt. Cast : die-cast finish, buffed, hammered, or barrelled finish.
Kitchen fitments, cupboards, tables, etc.	Medium strength, ease of working, durability, satisfactory appearance and finish with ease of cleaning.	Formed from sheet and extrusions : stamped or forged. A.4 AW.3 AW.4 AW.5 AW.9 AW.10. Cast : AC.2 AC.4 AC.6.	Painted, stove enamelled, anodised, polished or matt.
Furniture, showcases, etc.	Medium strength, ease of fabrication, welding, etc., satisfactory surface finish.	Sheet, extruded sections : A.4 AW.3 AW.4 AW.5 AW.9 AW.10 Cast : AC.2 AC.4 AC.6.	Painted, stove enamelled, anodised, lacquered, polished or matt.
Cast statuary and bas-relief.	Ease of casting, working or cutting, durability, superior surface finish with ease of cleaning.	Plate : A.4 AW.10. Cast : AC.2 AC.5 AC. 6.	Natural cast finish, polished, etc., burnished.
Architectural metalwork, *e.g.*, shop fronts, grilles, balustrading, gates and railings.	Medium strength, ease of forming by extrusion, forging, machining, cutting, filing, etc., ease of welding, fine surface finish.	Extruded sections, sheet and strip : A.3 A.4 AW.3 AW.4 AW.5 AW.6 AW.9 AW.10. Cast : AC.2 AC.4 AC.5 AC.6.	Mechanical, *e.g.*, polishing, scratch brushing, etc. Chemical, *e.g.*, anodising, etc. Painting, *e.g.*, lacquering, stove enamelling etc.
Rainwater goods.	Medium strength, light weight, ease of casting or strip forming, durability, satisfactory appearance.	Strip: alloys A.4 AW.3 AW.4 AW.5 AW.10. (A B.S. for wrought aluminium rainwater goods will shortly be published). Cast : alloys specified in B.S. 1430 : 1947.	Wrought gutters, downpipes normally left untreated but may be painted under very severe conditions. Cast gutters, downpipes normally painted but may be left untreated under less severe conditions.
Thermal insulation.	Light weight, high reflectivity with non-tarnishing surface, ease of installation, incombustibility.	Foil : A.2 A.3 A.4 crumpled or pleated.	High reflectivity. Building insulation foil is generally fabricated to proprietary forms.

10.B2 ALUMINIUM AND ALLOYS: APPLICATIONS 2.

This Sheet is the second of two summarising the applications of aluminium and aluminium alloys. It also describes the forms in which the material is available, surface finishes and gives a list of manufacturers who are members of The Aluminium Development Association and who supply aluminium and aluminium alloys in their many forms. Sheet 10.B1 gives the first part of the summary of applications together with a description of the characteristics of the material.

Available Forms

Aluminium and its alloys can be supplied in all the common forms in which metals are prepared for working into the final product. These include sand castings and gravity and pressure die castings, plate, sheet, strip, foil, extruded and drawn sections, tubes, rod, wire and rivets, forgings, stampings, and also powder and paste for paint. Suppliers of both cast and wrought alloys are glad to collaborate with the architect in choosing materials in order that the form, composition and properties of the semi-fabricated material supplied will be the most suitable for the purpose envisaged. Thus, extruded sections can be produced of shape and size specially adapted to particular needs, such as window frames, mouldings and balustrades. Castings should be designed in consultation with the founders, whose wide experience will enable the best choice of alloy and method of production to be made.

Surface Finish

For many requirements the manufactured finish of the material is adequate: rolled strip and sheet, and drawn tubes are smooth and bright; extruded sections do not possess a polished bright surface, but are smooth and clean in appearance. Sand castings are clean though rough, die castings are smooth and can be produced to close dimensional tolerances.

Decorative effects are obtained by polishing, burnishing, scratch-brushing and sand or shot-blasting; a satin finish is obtained by scratch-brushing with very fine wire brushes. All these mechanical treatments enhance the pleasant, natural colour of the metal.

Chemical treatments can be selected to yield slight variations in colour, and more variegated effects are obtained by differential etching or burnishing selected areas of the component. Anodising yields a hard and highly protective finish and a distinctive sheen: the anodic film may be dyed to almost any colour.

Further Information

Details of the specialised products of the following companies may be obtained from The Aluminium Development Association, or by direct application. The Aluminium Development Association maintains a Technical Advisory Service and Information Bureau which is available to answer questions and advise on technical problems.

Manufacturers

Manufacturers of aluminium who are members of The Aluminium Development Association are listed below and their main products are indicated.

(1) Manufacturers of sheet and strip metal, extruded bars and sections, corrugated sheet, embossed sheet, chequer plate, tubes, forgings, foil, wire, powder, paint and paste:

Aluminium Corporation Ltd.,
Dolgarrog, Conway Caernarvonshire.

Aluminium Union Ltd. (Distributor),
The Adelphi, Strand, London, W.C.2.

Northern Aluminium Co. Ltd. (Manufacturer),
Wellington House, Strand, London, W.C.2.

} Operating in the U.K. on behalf of the Aluminium Limited group of companies.

Birmabright Limited,
Woodgate Works, Quinton, Birmingham, 32.

Birmetals Limited,
Woodgate Works, Quinton, Birmingham, 32.

James Booth & Co., Ltd.,
Argyle Street Works, Nechells, Birmingham, 7.

The British Aluminium Co. Ltd.,
Salisbury House, London Wall, London, E.C.2.

High Duty Alloys Ltd.,
89, Buckingham Avenue, Trading Estate, Slough, Bucks.

Imperial Chemical Industries Ltd.,
Metals Division,
Kynoch Works, Witton, Birmingham, 6.

Reynolds Light Alloys Ltd.,
Hay Hall Works, Tyseley, Birmingham, 11.

Reynolds Rolling Mills Ltd.,
Hay Hall Works, Tyseley, Birmingham, 11.

Richard Thomas & Baldwins Ltd.
47, Park Street, London, W.1.

(2) Manufacturers of ingots, ingots for re-melting, sand castings and die castings of every description:

Alar Ltd. (an association of light alloy refiners),
6, Old Jewry, London, E.C.2.

Aluminium Union Ltd. (Distributor),
The Adelphi, Strand, London, W.C.2.

Northern Aluminium Co. Ltd. (Manufacturer),
Wellington House, Strand, London, W.C.2.

} Operating in the U.K. on behalf of the Aluminium Limited group of companies.

Birmingham Aluminium Casting (1903) Co. Ltd.,
Birmid Works, Smethwick, 40, Staffs.

The British Aluminium Co. Ltd.,
Salisbury House, London Wall, London, E.C.2.

High Duty Alloys Ltd.,
89, Buckingham Avenue, Trading Estate, Slough, Bucks.

L.M.F.A. Development Ltd. (a group of companies who are producers of castings of all types),
25, Bennetts Hill, Birmingham, 2.

Perry Bar Metal Co. Ltd.
Middlemore Road, Handsworth, Birmingham, 21.

Sterling Metals Ltd.,
Northey Road, Foleshill, Coventry.

This Series of Sheets on aluminium and aluminium alloys gives general data on the properties of the materials and their use in various building applications.

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change is from one use class to another use class the question is left open and the Order certainly does not preclude argument as to whether, in the circumstances of a particular case, the change is substantial enough to constitute a material, as distinct from a trifling, change.

Before leaving the Use Classes Order, 1948 (the object of which is *to exempt from the definition of development* certain changes of use which might otherwise be caught within the definition), it should be mentioned that this Order is liable to alteration at any time by means of a further Order made by the Minister (S. 111 (4) of the Act). In this respect, the Use Classes Order is different from, and accordingly must not be confused with, the Use Classes for Third Schedule Purposes Order already mentioned. The object of the latter Order is *to exempt from liability to development charge* the types of development therein mentioned and so that landowners may know for certain whether in the future such development will or will not be exempt from development charge, this latter Order is not now (since July 1, 1948) capable of alteration (proviso to S. 111 (4) of the Act). At the present time, those changes of use which are exempted from the definition of development by virtue of the Use Classes Order, 1948, are precisely the same changes of use which are exempted from development charge by the Use Classes for Third Schedule Purposes Order, 1948, but, whereas the former Order is liable to alteration at the Minister's discretion, the latter Order, after July 1, 1948, cannot be changed at all.

PLANNING PERMISSION

All development, whether carried out before or after the coming into operation of a development plan, must have planning permission before it is undertaken. The General Development Order, 1948 (SI. 1948 No. 958), contains twenty-one classes of development which come within the category of "permitted development" for which the Order itself gives the necessary planning permission. If development does not come within the scope of "permitted development" then planning permission must be sought from the appropriate local planning authority before it is undertaken, and against a refusal of permission or the grant thereof, subject to conditions, there is a right of appeal within one calendar month to the Minister of Town and Country Planning, whose decision is final. No compensation is payable on a refusal of permission, or of the grant thereof, subject to conditions, except in the six cases set out in Part II of the Third Schedule to the Act (which Schedule must now be read as extended in scope by the Use Classes for Third Schedule Purposes Order, 1948, already mentioned) and even in these cases an appeal to the Minister must first be made.

At the risk of appearing to place overdue importance on elementary matters may I stress three points in connection with the three Ministerial Orders to which I have so far referred:

(i) If a change of use is within the Use Classes Order, 1948, such a change does not constitute development at all and that being so there is simply no need to consider either the matter of planning permission or the matter of development charge because neither of these matters can possibly arise.

(ii) If a change of use is within the Use Classes for Third Schedule Purposes Order, 1948 (an Order which cannot now be altered) the change will not attract a development charge. Whether it will require planning permission depends not on this Order but on whether the change of use is excluded from the meaning of development charge. Whether it will tioned Use Classes Order, 1948, made under S. 12 of the Act and liable to alteration at any time at the Minister's discretion by some further Use Classes Order also made under S. 12 of the Act.

(iii) If development is in the category of "permitted development" under the General Development Order, 1948, this means that the requisite planning permission is granted automatically by the Order but it does not necessarily follow from this that a development charge will not be payable. Indeed, a development charge *will* be payable unless the development can be brought within one or other of the four categories of exceptions to which I have already referred.

THE PRICE TO PAY FOR LAND

The new system of development charges will render it necessary for any person purchasing land with a view to development to bear in mind that whatever he pays to the vendor he will, on developing the land after July 1, 1948, have to pay an additional sum to the State by way of development charge. The result is simply that the developer will not pay more for his development than he would have done had the system not been in operation, but the amount he pays will be divided into two portions, one part going to the landowner by way of purchase price for land, and the other part going to the State by way of development charge.

Thus land will tend to change hands at its existing use value and the landowner will lose any development value which his land has. If an owner cannot be made to sell his land at its existing use value the prospective purchaser can appeal to the Central Land Board, who can acquire the land compulsorily at existing use value from the unwilling vendor and then sell it to the purchaser at an inclusive figure which covers both purchase price and development charge. The Central Land Board can thus become a buying agent for potential developers who can't get the requisite land at the appropriate price envisaged by the new principles established by that Act. In connection with this intervention by the Central Land Board it may be noted that there is nothing (except the Minister) to stop the Board from disposing of the freehold of any land it has acquired and in this respect its powers are different from those of a local authority which, having acquired land under the Act, is precluded from granting anything more than a 99 years lease of the land except in exceptional circumstances.

CLAIMS FOR LOST DEVELOPMENT VALUE

The Government take the view that landowners are not entitled to compensation for loss of the development value in their land, but with a view to alleviating hardship the Act provides for the making of payments, in accordance with a scheme to be made by the Treasury, to landowners for loss of development value. The total sum which is to cover all payments for loss of development value in land in England, Wales and Scotland is £300 m.

The Claims for Depreciation of Land Values Regulations, 1948 (SI. 1948 No. 902), give details as to the time and method of making claims. Claims for settling the amount of the lost development value must be made by landowners to the Central Land Board not later than March 31, 1949, on forms obtainable from local authorities. The right to claim vests in any person who holds a freehold or a leasehold interest in the land on July 1, 1948, but this right is assignable up to and including December 31, 1952. Notice of the assignment must be given to the Central Land Board or the assignment is void. Mortgagees of land cannot claim themselves and should see that their mortgagor makes the appropriate claim.

It should be remembered that whatever may ultimately be the amount fixed as representing the lost development value, it does not by any means follow that this amount will be forthcoming out of the £300 m. for the landowner. It is the Treasury who will make the scheme for dividing the £300 m. between the successful claimants, and in making the division they are not bound to have regard to the amount of the lost development value, but may have regard "to such other circumstances . . . as may be prescribed by the scheme." Small claims are in any case excluded by the Act and no payments are likely to be made for some five years. When they are they will be made in the form of negotiable Government stock carrying interest in cash (less tax) from July 1, 1948, to the date of payment.

It will be wise for claimants on the £300 m. to preserve a sense of proportion and not endeavour to prove an inflated claim because the higher a claimant gets his lost development value fixed for the purposes of his claim on the £300 m., the higher may be the development charge which later has to be paid when his land is developed, although on this particular point it is right to remember that the development value of land, when being calculated for the purpose of a claim on the £300 m., should be based on the most profitable maximum development of the land which is reasonably possible in all the circumstances, whereas a development charge must be assessed by reference to the particular development which it is proposed for the time being to undertake. It would appear that a good deal will depend on whether or not an owner who is claiming on the £300 m. intends later to develop his land himself. If he does he may find it wise not to seek for the assessment of too high a development value for his land when making his claim on the £300 m. On the other hand, if the owner has no intention of developing his land himself he may feel it to be in his own interest to obtain as high an assessment as possible for the lost development value of his land and thereby obtain the largest slice available to him of the £300 m. Accordingly, a person now purchasing land will be well advised to get full particulars of the kind of claim on the £300 m. which his vendor has lodged with the Central Land Board because the outcome of that claim may later be used against the purchaser of the land when the purchaser himself comes to develop the land. Thus the higher the vendor has sought to establish the development value in his land, the lower must be the existing use value of that land, and, accordingly, the lower must be the figure which the wise purchaser will pay to the vendor by way of purchase price for the land.

Owners who believe that they hold "dead ripe" land under S. 80 of the Act and who are applying for the Minister's certificate to that effect must remember that it may happen that the Minister does not issue his certificate until after March 31, 1949 (indeed, applications for the certificate can be made until as late as July 1, 1949), in which case the owner will not know for a fact whether his land has qualified as "dead ripe" or not until after March 31, 1949, that is to say, until after the last day for claiming on the £300 m. Thus an owner who is applying for the Minister's certificate under S. 80 must also remember to make his claim on the £300 m. These are separate courses of action but they can go forward contemporaneously. If the owner gets the Minister's certificate under S. 80 and the land qualifies as "dead ripe," the claim on the £300 m. will, of course, fall to the ground. From the owner's point of view it is better that this should happen than that, having been informed by the Minister at some time *after* March 31, 1949, that his land is not "dead ripe" and that no certificate will be issued, he should then find that he is statute barred from making a claim on the £300 m. It is to be emphasized that the punctual making of a claim is a condition precedent to the obtaining of any share of the £300 m.

D

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TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.

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2.51 planning: general
1947 ACT: GENERAL DEV. ORDER

Town and Country Planning (General Development) Order, 1948: *Explanatory Memorandum.* Ministry of Town and *Country Planning.* (HMSO, 1948. 3d.)

Memorandum referring to Statutory Instruments 1948, No. 958 (see 2.45:5.8.48).

Comparison of new Order with previous Development Orders drawing attention to differences between new and old system of planning control. Scope of Order. Definition of "development" under Town and Country Planning Act, 1947. Permitted development. Application for grant of permission to develop.

2.52 planning: general
1947 ACT: GENERAL REGULATIONS

The Town and Country Planning (General) Regulations, 1948. Statutory Instruments 1948 No. 1380, made June 24, 1948. Ministry of Town and Country Planning. (HMSO, 1948. 2d.)

Regulations made under various Sections of Town and Country Planning Act, 1947, dealing with miscellaneous aspects of procedure.

Claims. Enforcement notices. Development of land which has ceased to be operational land of statutory undertakers. Disputes regarding "prevailing use" of land. Proceedings in respect of (1) development plans and compulsory purchase orders and (2) compulsory purchase orders and orders extinguishing rights of way. Applications under Ribbon Development Act, 1935.

2.53 planning: general
1947 ACT: TREE PRESERVATION

The Town and Country Planning (Tree Preservation Order) Regulations, 1948. Statutory Instruments, 1948, No. 1436, made June 29, 1948. Ministry of Town and Country Planning. (HMSO, 1948. 1d.)

The Town and Country Planning (Tree Preservation Order) Regulations, 1948. Circular No. 52, dated June 30, 1948. Ministry of Town and Country Planning. (HMSO, 1948. 1d.)

Regulations dealing with form of tree preservation orders made under Section 28 of Town and Country Planning Act, 1947.

The two documents provide particulars of the procedure to be followed by local planning authorities when making orders for tree preservation under the 1947 Act. The form in which such orders should be made may be determined by the local planning authority. It should include a map showing the position of the trees, groups of trees or woodlands, which are the subject matter of the order. The map should be to a scale of 25 inches to 1 mile for smaller areas, and for larger areas it should be to a scale of 6 inches to 1 mile. Other aspects of the regulations deal with procedure in regard to submission and confirmation of these orders.

2.54 planning: general
1947 ACT: GRANTS

Town and Country Planning Act, 1947: *Grant Regulations under Sections* 93-96. Circular No. 54, dated June 30, 1948. Ministry of Town and Country Planning. (HMSO, 1948. 1d.)

Particulars of grants towards expenditure incurred by local authorities in connection with acquisition and clearing of land for redevelopment as a whole, of areas of extensive war damage, bad layout or obsolete development, and of derelict land acquired to bring it into use. Grants in respect of compensation other than in respect of compulsory acquisition. Grants in respect of loss in acquisition and clearing of land.

2.55 planning: general
1947 ACT: PROCEDURE

The Coming into Operation of the Town and Country Planning Act, 1947. *Circular* No. 53, dated June 30, 1948. Ministry of Town and Country Planning. (HMSO, 1948. 1d.)

Circular advising local planning authorities on procedure regarding questions affecting Central Land Board; on country district councils' participation in planning after they cease to be local planning authorities; on use classes; and on planning permission for industrial buildings. Reference to informal planning advice to be given to public.

13.31 materials: timber
WOOD BLOCK FLOORS

Wood Block Flooring. Draft of BS C. of P. 201, 102; 1948. (British Standards Institution, 2s.)

Treatment of sub-floors, types of adhesive, methods of laying, maintenance. Some qualities described. Useful in some respects but vague, lengthy and incomplete in others. 17 pp.

This code claims to deal with the selection and laying of hardwood and softwood block floors. Its contents are very variable in quality. Some sections are long and almost useless, while others give clear and useful information.

The code commences with the usual exhortation for everyone to inform everyone else about everything. In doing this it succeeds in suggesting that the type and size and thickness of the blocks are to be influenced by requirements for fire resistance, sound and thermal insulation. It is very doubtful whether either fire resistance or sound insulation will be materially affected by the type, size or thickness.

In stating what contract documents are required the contents of the specification are listed. No mention is made here that the specification should define quality of materials, though quality is referred to elsewhere in the code.

Over half a page is given to a section headed Time Schedule. It refers to a number of very obvious things, but fails to give any advice about whether wood flooring should be done before or after painters work—a subject of frequent controversy by the craftsmen concerned.

The information about preparation of the sub-floor, the types of adhesives and types of primers suited to these is clear and useful.

Describing the wood blocks it is rather surprising to find a definite recommendation that finished thickness should never be less than $\frac{13}{16}$ in. It is also a matter of opinion as to whether it is correct to describe wood blocks as "fairly resilient." A section called "Suitability for various conditions of use" takes sixteen lines of print to say don't lay wood blocks in kitchens, bathrooms or other damp places, but fails to give any useful advice on less obvious points.

Heat insulation value is given and added to by a curious sentence saying that the U value should be used in conjunction with the full temperature difference between the air inside the building and the outside air. How the outside air gets into the picture is not explained.

The need for a separate DPC on solid ground floors is discussed and the use of cold adhesives as a DPC is not recommended. The section on moisture content of blocks is helpful and it is interesting to note that although the laying of blocks on floor panel heating is dealt with rather tentatively the inference is that it is considered quite a reasonable thing to do.

The three page section dealing with work on site contains useful notes on various points.

Altogether a most unbalanced document. Useful in some places and most irritating in others. It is to be hoped that the final code will show considerable amendment and some drastic cutting.

20.86 construction: complete structures
TILT-UP CONSTRUCTION

Development of Tilt-up Construction. C. A. Clark. (J. American Concrete Institute, May, 1948, pp. 813-820.)

Advantages of casting large wall sections horizontally on the floor and tilting them to a vertical position. Details of construction and practical examples demonstrating some of the architectural possibilities.

20.87 construction: complete structures
SHELL CONSTRUCTION

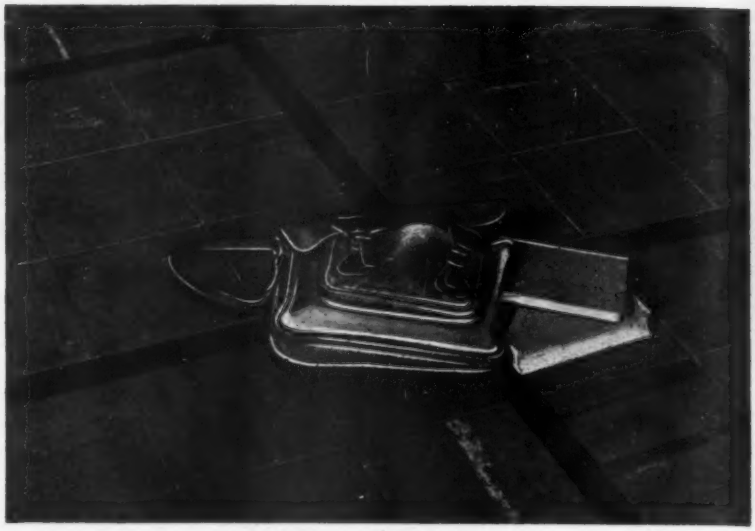
Shell Concrete Construction. H. G. Cousins. (The Reinforced Concrete Association, Technical Paper No. 6. 2s. 6d.)

Lecture referred to in No. 20.59 now published with illustrations.


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IN planning floors for assembly halls, school classrooms and corridors, many problems have to be considered. Floors must be able to withstand much hard wear, yet must not themselves be hard and tiring to the feet. They must be of low thermal conductivity to ensure underfoot comfort in varying temperatures, and of low porosity to reduce the risk of dampness arising from the sub-floor. Thought must be given to the creation of cheerful designs and correct colour harmonies to influence the impressionable eye, and children's health safeguarded by choosing flooring material that is easy to keep properly clean and therefore free from infectious germs.

FOR THE TEACHER

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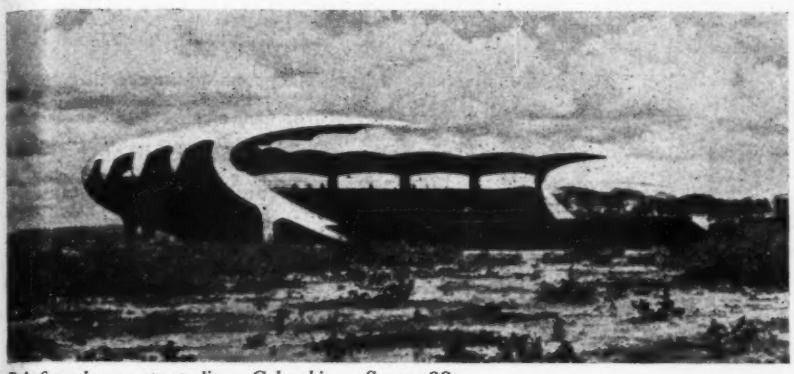
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48SE 514



Reinforced concrete stadium, Columbia. *See* 20.88.

20.88 construction: complete structures
CANTILEVERED SHELL ROOF

Pitching a Bold Curve in Concrete. (Arch. Rec. [USA], July, 1948, pp. 88-93.)

Reinforced concrete structure of Baseball Stadium, Cartagena, Colombia, South America. Cantilevered rigid frames in the shape of a capital C at 35 ft. centres supported on two columns, carrying series of Z-shaped beams forming seats, and canopy of 1¼ in. thick shell stiffened with ribs. Very bold and ingenious design.

20.89 construction: complete structures
PUMICE CONCRETE HOUSES

Prefabricated Pumice Concrete Houses. H. L. Methews. (J. American Concrete Institute, May, 1948, pp. 797-811.)

Construction of 380 single-storey houses for US Navy in the Mojave Desert in light weight precast slabs.

The article mainly deals with the physical properties of pumice concrete, the mass production of large slabs made of pumice concrete, their erection and finishing. The houses had a floor area of 787 sq. ft., the specified crushing strength of lightweight concrete for the wall and roof slabs was 1,500 lb/sq. in., which had to be obtained with a density not exceeding 75 lb./cu. ft.

In an 8-hour day 44 precast wall and roof slabs could be made, enough for two dwellings. The wall slabs were 5 in., the roof slabs 6 in. thick. The panels were reinforced with meshes, and all concealed electrical conduits, switch boxes, piping, steel door frames and steel window sashes were accurately placed in the forms. The forms were mounted on small cars running on rails. When the concrete had been placed the cars were pushed to the vibrators and finishers and then through steam tunnels. The heaviest slab was 8 ft. 5 in. high by 16 ft. 6 in. long, and weighed 6,480 lb.

The author comes to the conclusion that prefabricated houses in lightweight concrete appear economically feasible when constructed in sizable groups in locations where suitable aggregates are available. Lightweight concrete has a high degree of thermal insulation and sound absorption, and prohibits condensation.

24.95 lighting
SHOP LIGHTING

Lighting Practice for Stores and other Merchandising Areas. Report of The Store Lighting Committee of the Illuminating Engineering Society, USA (Illum., Eng., June, 1948, p. 565.)

Functions, vision, and sources; interior lighting practice, and systems appraised; internal and external display; signs and outdoor lighting; wiring. Appendices on sources, standards, terminology and special items. Good bibliography. Important but rather dull document. Amply illustrated.

The report provides a full summary of American shop lighting practice, which is admittedly good. It gives the impression, however, that it compromises between the best in the recent literature and a rather average standard of practice. It is a particular disadvantage that it goes straight into details without any general picture of practice in different parts of the country or an appraisal of the present position in America. And it says a large number of things that could have been omitted.

In the first part, functions are discussed, and the familiar interest in attracting trade is modified by recognition that it is the customer's right to have correct lighting to judge goods. Factors of vision, and brightness are also discussed, but with rather less competency than would be expected now. More adventurous use of coloured light, especially fluorescent, is recommended.

The report improves in the discussion of interior lighting, and the classification of point and broad sources for different kinds of goods shows experience. There is an interesting distinction between point sources for jewellery, for instance, and larger, near-point sources for cars and furniture.

The discussion of systems, *e.g.*, indirect, semi-direct, could with advantage have gone into an appendix. It is relieved by occasional glimpses of experience, especially in the lighting of mirrors and people standing in front of them. Use is made of general and direct light on the subject, and light thrown on to the mirror to be reflected to the subject.

Display lighting is well done, and there is an interesting section on fading under artificial light. Illumination of outdoor shopping areas, of external displays, and façade lighting is also competently written. Recommended values range from 5 f.c. for parking to 500 f.c. for external display.

The bibliography is good, and there is a first-rate chart summarising the recommendations in the report.

Architects designing shops should read this.

REFERENCE BACK

12.19 29.7.48. The comparisons between various types of zinc coating referred to in paragraph (*a*) are based on *equal coating weights.* In practice hot dip galvanized coatings are generally thicker than those applied by other methods and so are more resistant to exposure.

The form printed below is to assist readers requiring up-to-date information on building products and services. Complete and post it to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1, and the advertisers listed will be asked to supply information direct.

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This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

QUESTIONS AND ANSWERS

2959 ROADS AND SEWERS: COSTS

Q *We are faced with making an approximate cost of the complete construction of a road 40 ft. wide complete with curbs, concrete roadway, concrete footpaths, grass verges, 9 in. sewer and road drainage complete.*

It is now many years since we carried out any such work, and we should be obliged if you could help us in the matter as soon as possible.

A We would suggest that you calculate the quantities of all operations required to construct one yard run of road, but exclude all drainage work.

The quantities should be priced at current local rates and extended and totalled. The total multiplied by the length of the road required would give its cost. If it is not possible to measure typical excavation quantities for a yard run of roadway, then the excavation should be measured separately, but only accurately enough to give approximate quantities.

It will be necessary to add to the cost of the standard 40 ft. road for additional items, such as bellmouths and turning spaces, etc.

Approximate quantities should be taken for the drainage; the depth of the sewer trench can possibly be averaged for the whole length of the road, unless excessive depths occur. Manholes and gullies can be numbered and priced at so much each.

We cannot advise you as to the prices to allow, having no knowledge of the site, local conditions, and prices ruling in the district, but suggest that it might be possible to obtain the assistance of a local contractor.





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Now that the Government's housing programme is making steady progress Professor Ian Bowen's monthly analysis of progress will no longer concentrate on housing. Instead, he will contribute a monthly article on "Building Progress," the third of which appears below. In these articles he will survey building activity generally, drawing attention each month to whatever current developments seem to be of the greatest interest.

BUILDING PROGRESS

[By Ian Bowen]

In June 21,159 permanent houses were finished in Great Britain. This figure was a post-war record, although substantially of the same order of magnitude as the numbers completed in May and April.

The number of permanent houses begun in June rose by more than 1,000, but the monthly starting rate is still far too low to maintain the present rate of completions; unless it improves substantially very soon, the number of houses finished per month will sharply decline. To some extent the disparity between commencements and completions is due to deliberate policy, the effect of which has been to bring down the number of houses under construction to its planned level; but such a reduction is at best "paper planning"—there is no special virtue in having the number of houses under construction at any particular figure unless it reflects a movement towards a more balanced, and therefore more easily fulfilled, programme. The present low level of commencement of houses will throw the programme out of balance again unless it is quickly remedied.

New contracts let in June rose to 12,794, which perhaps shows that there is some official realization of the need to turn on the tap. There is a pool of 50,640 houses on contract, but not yet begun, available to speed up progress.

Something ought to be done soon, in view of the loss of 9,000 men in June from the labour force employed on permanent new housing. This occurred at a time when the total labour force employed by the industry increased by 4,000. New housing has lost no less than 30,000 men since the cuts last October.

The plan of using the same sized labour force on housing on a reduced programme so as to speed up completions has thus gone somewhat awry. The men now being lost from the housing programme may not be easily recalled when they are needed, nor is the speeding-up process being fully experienced.

FACTORIES

£16 millions worth of new factory work was licensed in April, and the figure was still as high as £12 millions in May. The bulk of new licences issued were to non-Development Areas, especially to the North-West and North Midlands.

In the Development Areas, while there was no great increase of licences issued, 28 projects were completed, of a value of nearly £2 millions. Both in the Development and non-Development Areas factory schemes on the deferred list have been permitted to go ahead. In general, the shift of labour towards "industry and agriculture" from housing work suggests that for industrialists the building "cuts" will by now have represented a slowing-down, but by no means a stoppage, of their programmes.

BUILDING MATERIALS

Stocks of imported softwoods were three times their end-1946 level at the end of 1947, but since then they have been considerably depleted.

Cement production in April and May was very high, but not apparently sufficient to meet all domestic and foreign requirements. Incidentally, it would be easier to follow the cement production statistics if they were based on *either* a standardized month, *or* a four-week-five-week month; currently the statistics referred to months of "four weeks and three days" and "four weeks and four days," which is not a useful basis of comparison.

Still very remarkable is the high level of production of such items as baths, sinks, lavatory basins, gas cookers and gas and electric meters. These are all now being turned out in their thousands, far in excess of the numbers of new houses that are being completed. The replacement demand for several of these items is no doubt high, but the question arises whether the effective replacement demand will not be reduced by deflationary tendencies. Already there seem to be some indications that salesmanship will be needed to rid the public utility and distributing firms of stocks of baths and cookers.

TABLE I
New factory buildings licensed in May, 1948.*

Region	In Development Areas		Outside Development Areas	
	Number	Value £000	Number	Value £000
Total	2	205	179	12,159
Northern ..	—	306	—	—
E. & W. Ridings ..	—	—	15	429
N. Midland ..	—	—	58	2,160
Eastern	—	—	7	38
London & S. Eastern ..	—	—	1	33
Southern ..	—	—	—	37
S. Western ..	—	—	5	92
Wales	5	121	1	8
Midland	—	—	13	875
N. Western ..	−1	−15	78	8,505
Scotland ..	−2	−207	1	−13

* *i.e.*, the difference between the cumulative totals up to April 30 and up to May 31. A negative figure presumably indicates the withdrawal of a scheme previously recorded, or a revision of the figures.

TABLE II
Labour employed in the Building and Civil Engineering Industry at October, 1947, and at June, 1948 (Thousands)

End of month	Total	Constr. of new houses	Conv. and adapt. to houses, etc.	Repair and maint. of houses	War damage repairs to houses	Other war damage repairs	Industry and agric.	Other work
October, 1947 ..	1,004	278	47	153	97	26	190	204
June, 1948	1,013	248	48	159	77	25	456	
Increase or decrease	+ 9	−30	+ 1	+ 6	−20	− 1	+53	

BUILDING OUTPUT

LMBA PRESIDENT'S WARNING

A strong plea for increased supplies of cement for the building industry was made by the President of the London Master Builders' Association, Mr. D. C. Burgess, in a speech to the Association's Southern Area at Croydon.

The shortage of cement, said Mr. Burgess, has had its effect on every single job in the country. Many jobs have actually stopped. Innumerable jobs have slowed down. And there is not a single job where the psychological effect of the expectation of a shortage has not produced a slowing up of the pace in order to keep the work in line with deliveries.

I believe that the loss from this one shortage alone cannot be less than 10 per cent. of our output, which is the equivalent of the work of 130,000 men.

For a planner to say "You must make do with this per cent. less or that per cent. less" is in effect saying to the industry, "Don't work too fast for you can only have a certain amount of cement." At a time when we are trying to live down the habit of restrictive outlook nothing could possibly be worse for the industry.

We don't need more people in this country, if only the people who are already here can feel that there is no likelihood of their being out of a job through materials running short.

I feel as employers we have got to concentrate our efforts at the present time on persuading the planners to co-operate with us and make it possible to fill the role that fate seems to be offering us.

The danger is that the man in the street does not appreciate how easy it is for a job to go slow. The layman would not even notice if a man took five hours to do a four-hour job, a drop of 20 per cent. in output.

I feel that I would not be doing my duty to the industry, or for that matter to the country, if I were to keep quiet. If the employers sit quietly by whilst jobs go on half-cock for lack of materials we shall be blamed, and rightly so. Costs will inevitably rise. We shall be told we are inefficient, that we don't care, and so on.

NO PLACE FOR LAZINESS

All of us have dreams, even those who don't smoke pipes, but my dream of the future building industry is not to me just a dream—I feel it is a pre-view of the inevitable. It is of an industry made up of busy people, the employers not being a race or class apart but the leaders of a Commando, with the operatives so interested in the task to be accomplished by the team as a whole that they feel satisfaction in the anticipation of its successful completion.

There is not, in my dream, any place for laziness. There is no place for laziness of thought amongst the employers. They cannot sit back and hope that things will get better. They cannot take an easy course and say the operatives will look after themselves. That is the mentality of spivs and drones: to reap a reward they must earn it.

There is no room for laziness amongst the operatives either. They can only expect to receive in return for an hour's effort on their own part the result of an hour's effort on the part of someone else.

MEASURING THE OUTPUT

A few years ago I pressed hard, pressed so hard that many lost patience with me, for the reform of our wage basis so that the extent of a man's effort rather than the ticking of a clock should decide the size of his wage packet. I was only partly successful in this, for whilst we now have what we call incentives we have not yet got a general appreciation on the part of either

employers or operatives that a standard basis in this matter is essential to the prospects of a fair deal as our weights and measures in a greengrocers. You would not call it fair trading if a trader, in order either to sell at a lower price per pound or to make a larger profit, were to chip a bit off his weights. Similarly, we cannot sell our jobs at lower prices and hope to cover the loss or keep a profit by cutting our target rates. I am sure, therefore, that before very long both employers and operatives will become convinced that a common standard is essential.

PART AND PARCEL OF THE TEAM

Since I have been your President I have spoken at many meetings, and have stressed the necessity for employers to make themselves part and parcel of the team. I put it that way for it is just as much, or more, of a necessity for them to make themselves part of the team as to make the operatives feel a team spirit. The realisation of the importance of the employer-operative relationship is growing.

We can look forward with reasonable certainty, if only we play our part, to a time when our operatives will be their own landlords and drive their own cars to their jobs. This state of things will come not from idleness and argument, but from energy and output. Expansion of out-turn in our industry, one of the biggest in the country, can lead to increased capacity in every other industry and so bring instead of restrictions and a lowering of our standard of life, expansion and all that that means in reward to the people of this country.

In fact we employers in the building industry can be the salvation of our country. We, perhaps more than anyone else, can start the ball rolling. We can be the industry which raises the average of man-hour output. We have it at our hand very considerably to lower labour costs and yet increase the wage packet, and the increase in the wage packet will not in these circumstances be at the cost of lowering its value. Every penny in it will become worth more in the goods that it can buy.

Announcements

The London office of Messrs Santon Ltd., manufacturing electrical engineers, has moved to 18, Lowndes Street, Lowndes square, London, S.W.1, where it will continue under the management of Mr. A. J. Wyndham Roberts, the London manager. In addition to displaying a representative range of the firm's products, including rapid turbulating water boilers and heavy duty water boilers, there are considerably greater storage facilities, enabling them to execute from London stock orders for immersion heaters, storage heaters, and other apparatus in general demand.

Mr. Arthur Coe, Editor of the *Journal of the Institute of Fuel*, and Secretary to the Publications and Education Committees of this Institute, has been appointed Director of the Combustion Appliance Makers' Association.

Mr. Cyril Oliver Boyse, B.SC.(ENG.), M.I.C.E., M.I.E.E., M.I.STRUCT.E., Chief Civil Engineer of B.I. Callender's Cables, Ltd., is the Chairman-elect of the IEE Transmission Section for 1948/49.

The Company of the Merchant Adventurers of London Ltd., by arrangement with the Benjamin Electric Ltd., have agreed to change the name Flurolume, describing their fluorescent fittings, to Fluorelume. It was felt that the original name might be confused with Messrs. Benjamin's trade mark Flurolier.

The Limmer & Trinidad Lake Asphalt Co. Ltd. has decided to bring plastic decorative tiles within the scope of their flooring operations. This decision has arisen out of the success of trial sections laid by the firm over ten years ago with imported American tiles of similar characteristics. In those pre-war days they fully intended to develop the process, but in 1939 their whole organization was turned over to war work. With the return to civil building and the trend towards colour in building construction it became apparent to the company that a floor of this character would be in demand in locations where a decorative effect was desired. Taking advantage of the availability of the tile in this country, they now include its application among the well-known grades of flooring in which they specialize.

Mr. Randolph St. George Whelan, A.R.I.B.A., A.M.T.P.I., has resigned his appointment as a Planning Officer in the Ministry of Town and Country Planning to take up duty as a Regional Architect in the Ministry of Health. His address is: Ministry of Health, Regional Offices, 12, Queen Anne Terrace, Cambridge, where he will be pleased to receive trade catalogues, etc.

Buildings Illustrated

Agricultural Cottages, Kite's Nest Farm, Wotton-under-Edge, Gloucestershire (page 270). Architects, Burrough & Hannam. General contractor, S. Grimes. Sub-contractors: Precast concrete eaves and window surrounds, The Bristol Stone & Concrete Co. Ltd.; Metal windows, Messrs. Williams & Williams.

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2) An adaptation of the above system permits control of each undertaking, stage by stage. Thus, one single house, a factory or a big block of flats or offices can be progressed step by step. Large installations have already been effected for Boroughs and other bodies to control their housing projects. Equally, it has been adopted by many architects, surveyors, builders, house agents, etc.

3) Specially designed visible record cards are available for use with such systems (see below). These are immediately available or can be designed specially to individual requirements. Records to control costs, payments, purchases, rentals, etc., are all available.

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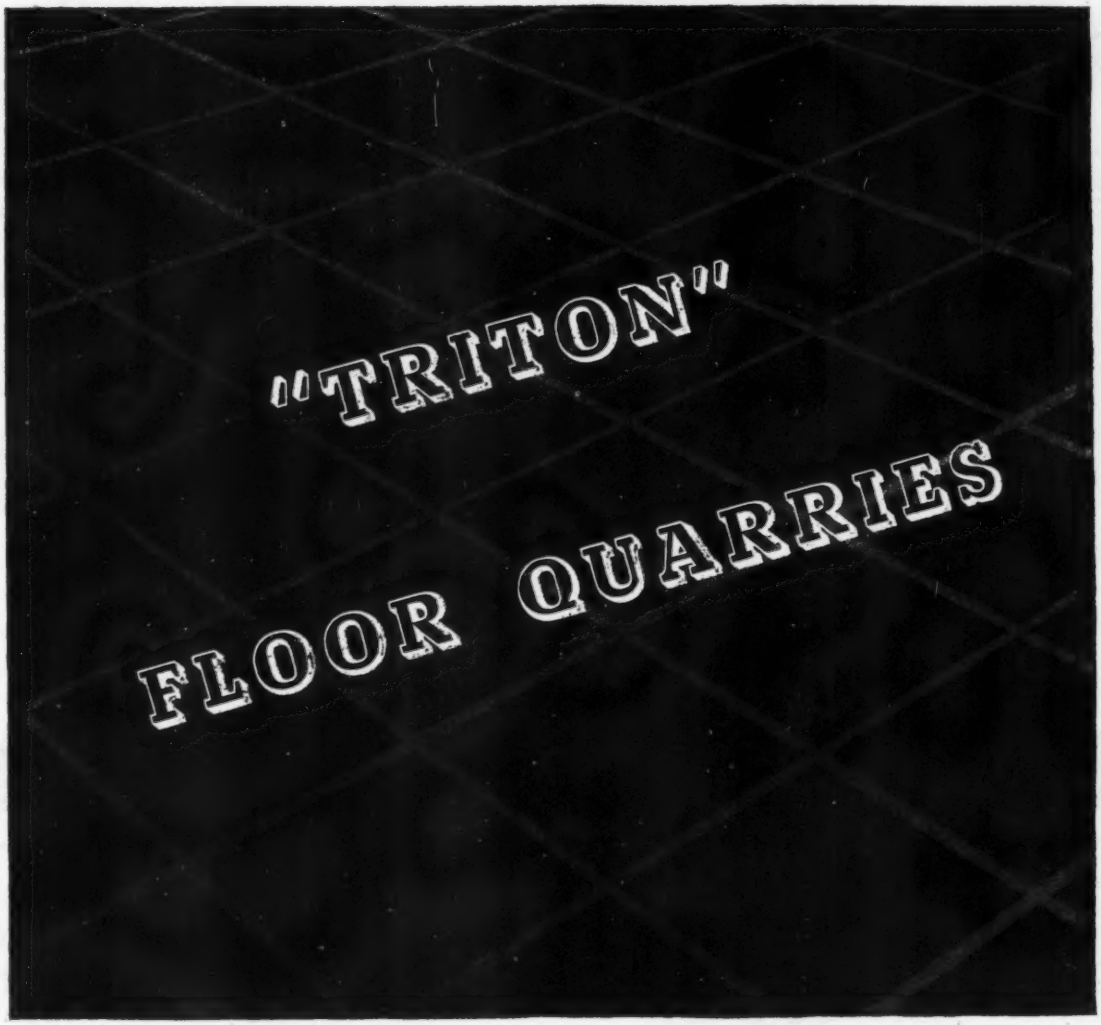
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Overdue Accounts	Plant and Maintenance
Job Cards	Personnel

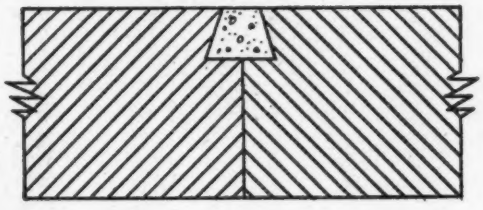
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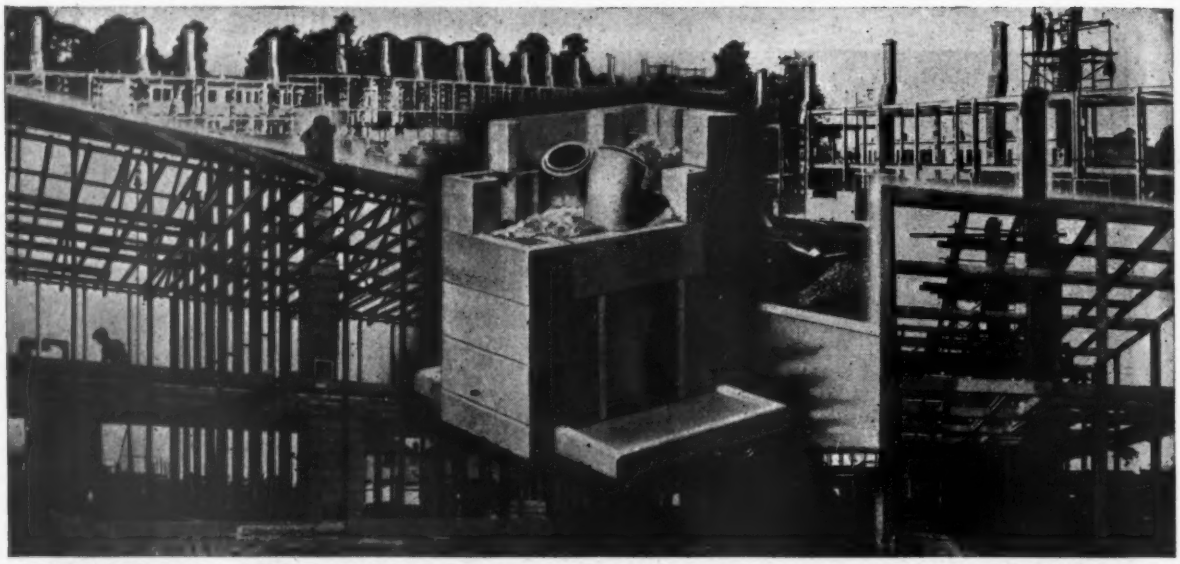
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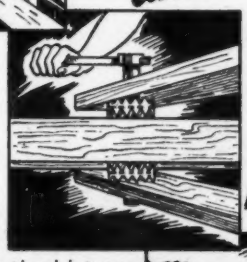
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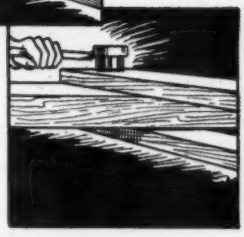
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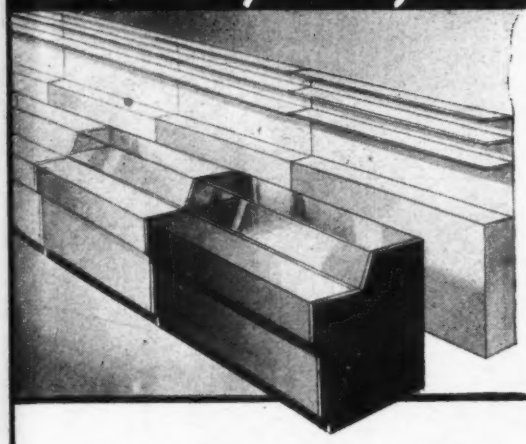
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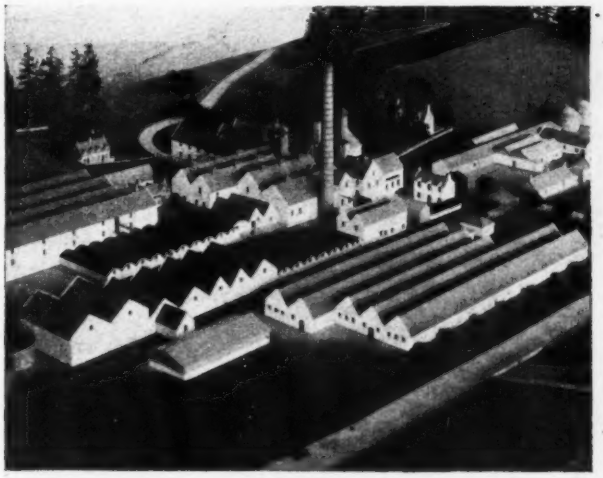
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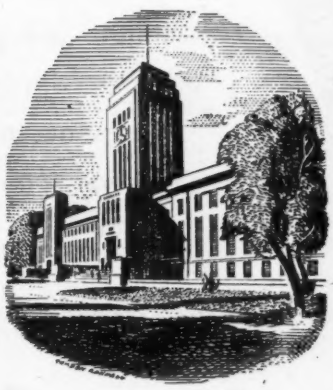


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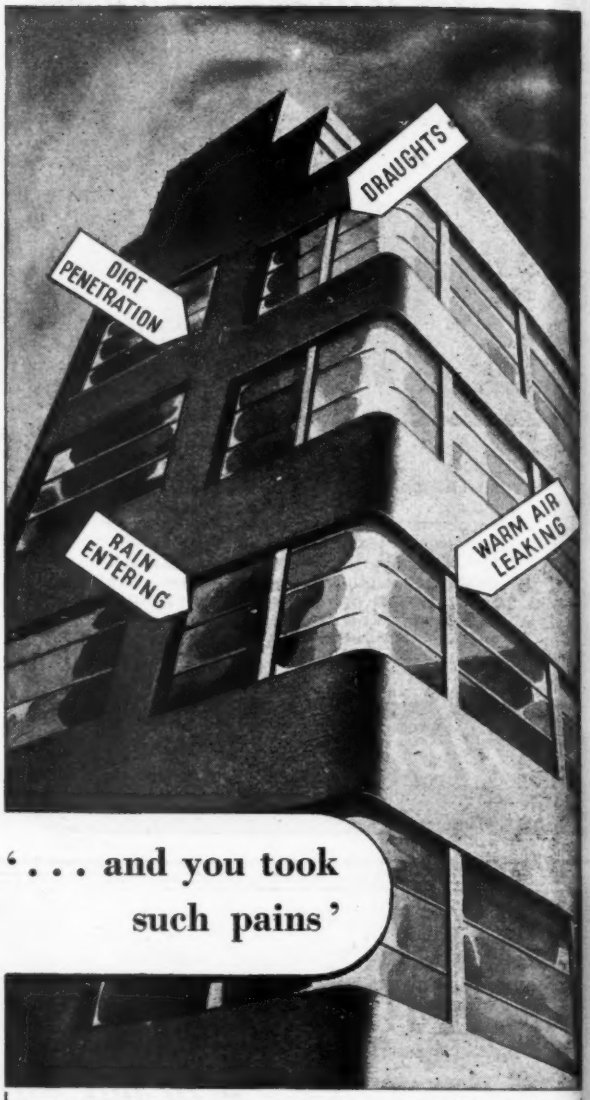
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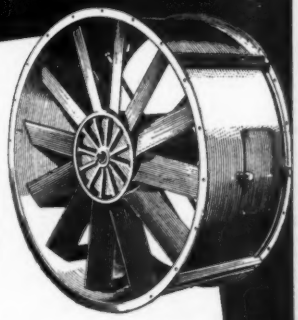
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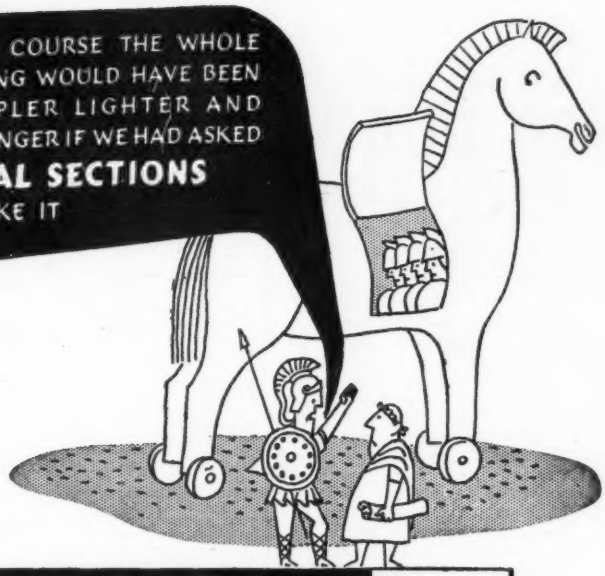


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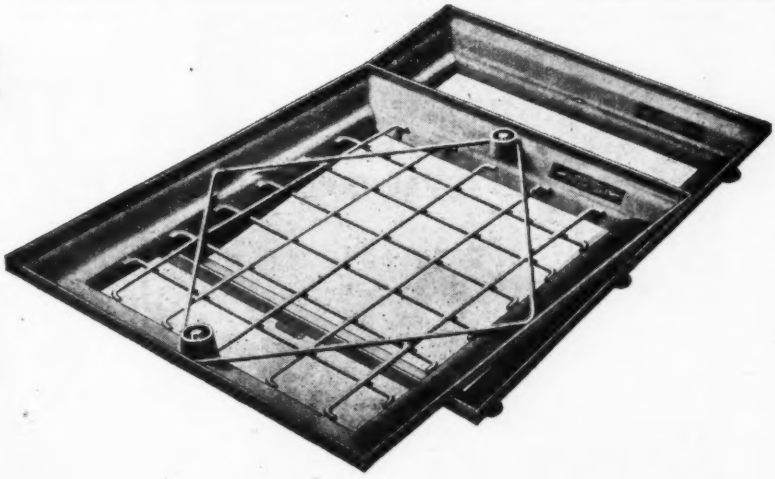
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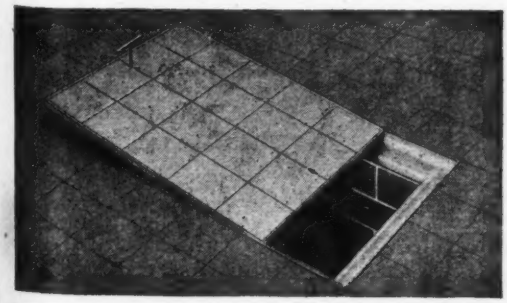
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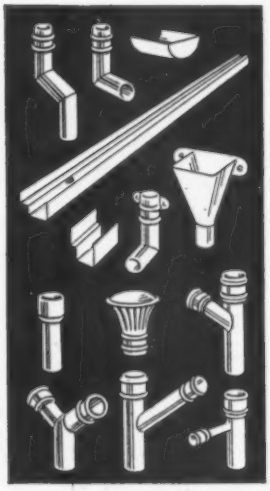
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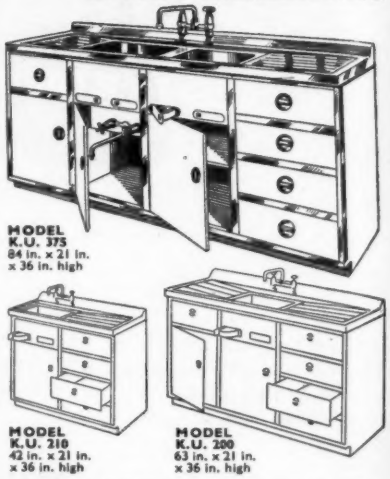
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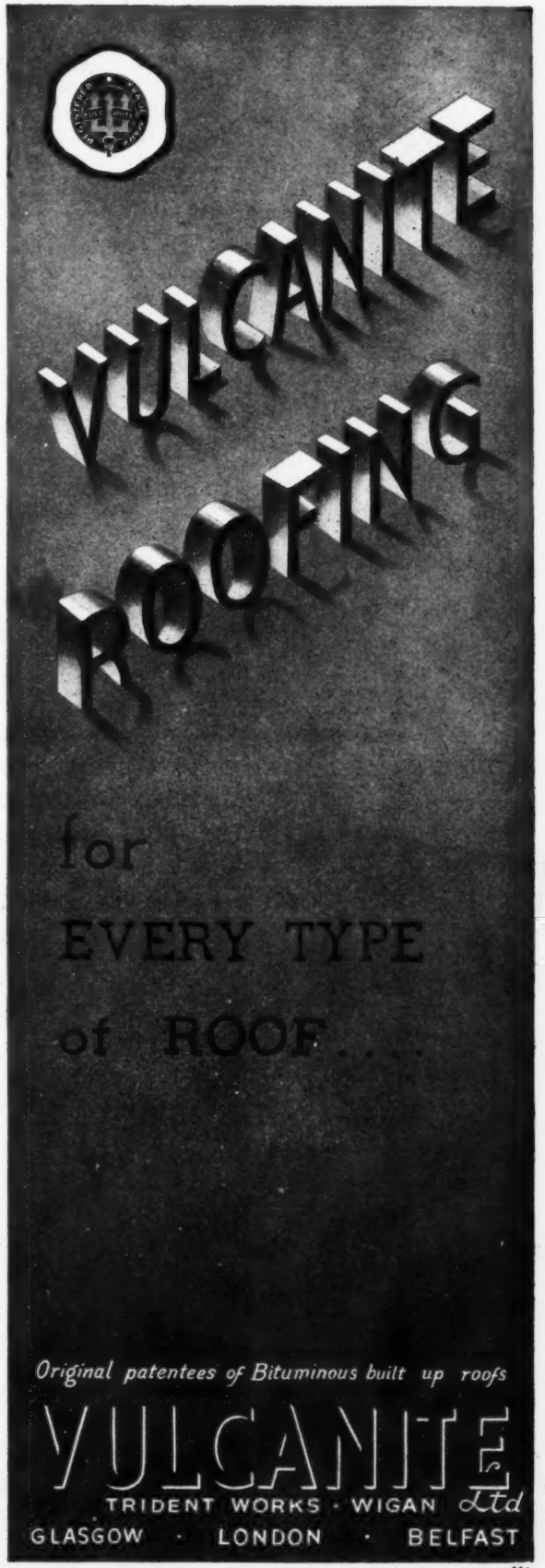


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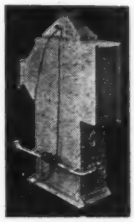


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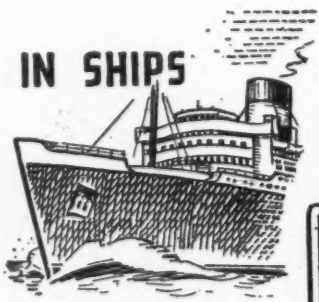
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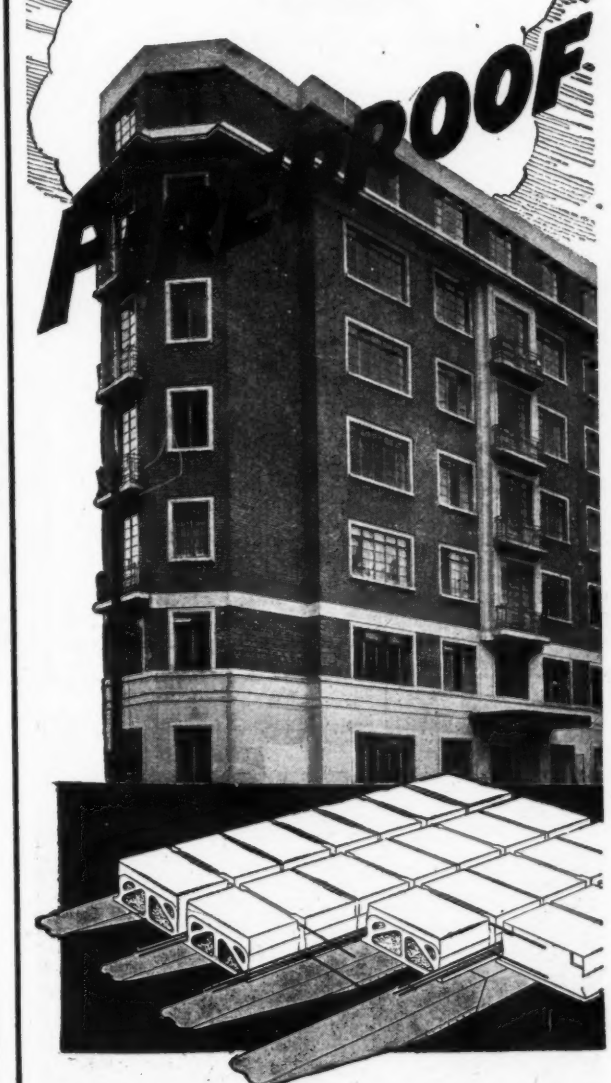
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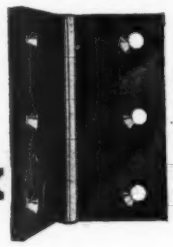
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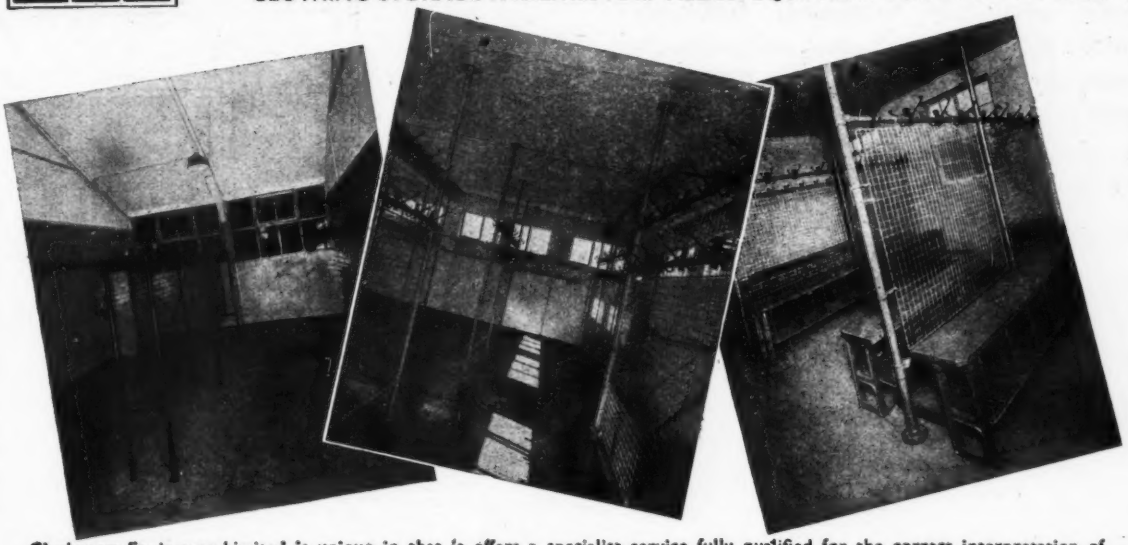
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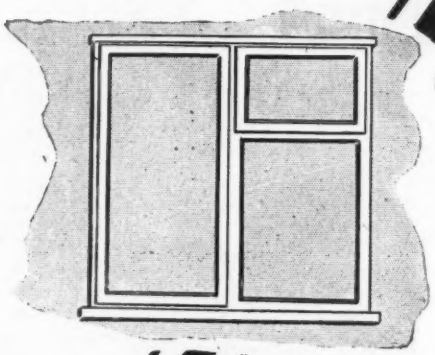
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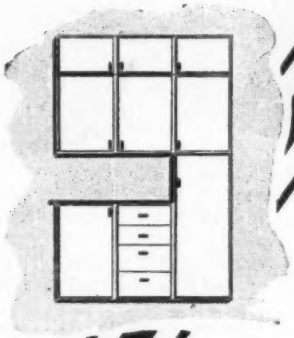
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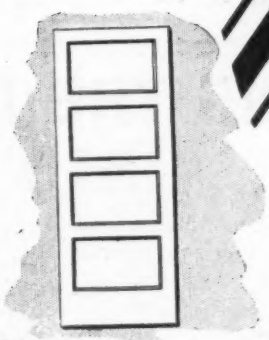
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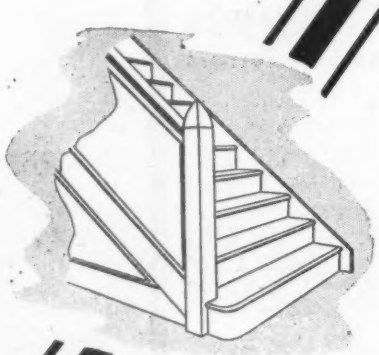
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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

None of the vacancies in these columns relates to a man between the age of 18 and 50, inclusive, or a woman between the age of 18 and 40, inclusive, unless he or she is excepted from the provisions of the Control of Engagement Order, 1947, or the vacancy is for employment excepted from the provisions of that Order.

Public and Official Announcements

6 lines or under, 10s.; each additional line, 1s. 6d.

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTER, WREN PARK, WHYTELEAFE. Tel.: Uplands 0935. 991

LONDON COUNTY COUNCIL.
PLANNING STAFF.

Vacancies in the following grades (some permanent):—

ASSISTANT SENIOR PLANNING OFFICER. £1,000 to £1,200 a year.

PLANNING OFFICER (Grade I), £840 to £960 a year.

PLANNING OFFICER (Grade II). £700 to £840 a year.

PLANNING OFFICER (Grade III). £550 to £700 a year.

Candidates should possess architectural, surveying or town planning qualifications.

Full particulars and form of application obtainable from the Architect to the Council (P), The County Hall, Westminster Bridge, S.E.1 (enclose stamped addressed foolscap envelope), (1554) 1301

LONDON COUNTY COUNCIL.
HOUSING AND VALUATION DEPARTMENT.

ARCHITECTURAL ASSISTANTS. Applications are invited for positions of Architectural Assistant, at salaries of up to £680 a year. Commencing salaries will be determined according to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the Department on the occurrence of vacancies. Engagement will involve Superannuation contributions at the rate of 6 per cent. of salary.

Successful candidates will be required to undertake the design, layout, and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed foolscap envelope required). Canvassing disqualifies. (870). 1032

FLINTSHIRE COUNTY COUNCIL.
PLANNING DEPARTMENT.

Applications are invited for the appointment of DEPUTY COUNTY PLANNING OFFICER, at a salary in accordance with Grade A.P.T., VII, of the National Scales (£635 per annum, rising to £710 per annum, consolidated). Applicants should have had considerable experience in the preparation of Planning Schemes, the control of development, the application of the Town and Country Planning Acts and Orders, and in the work of the Planning office of a local authority or joint committee. Preference will be given to applicants who are Corporate Members of the Town Planning Institute, and who also hold a recognized qualification in architecture, surveying or engineering. The successful candidate will be required to provide a motor car, for which an allowance will be made either by way of mileage rates under the National Joint Council scale or fixed allowance, as may be determined on appointment by the Council. The appointment will be subject to (a) the National Scheme of Conditions of Service, as modified by the County Council, (b) the Local Government Superannuation Act, 1937, and (c) the successful passing of a medical examination.

Applications from registered disabled persons will be considered.

Applications on the prescribed form obtainable from the undersigned, are to be returned so as to be received not later than Saturday, 25th September, 1948.

W. HUGH JONES,
Clerk of the County Council.

County Buildings, Mold. 1669

BERWICKSHIRE COUNTY COUNCIL.

ARCHITECTURAL ASSISTANT required in Planning and Property and Works Department. Salary £480-£525 p.a. Appointment subject to general provisions of Council's Scheme of Conditions of Service and to the Local Government Superannuation Acts. Applicants should have experience in preparation of plans, specifications, quantities, estimates, etc., for maintenance and improvement of property and in general architectural work. Further particulars and forms of application may be had from the Planning and Works Officer, 12, Newtown Street, Duns. Applications should be lodged with the County Clerk, County Buildings, Duns, Berwickshire, not later than 6th October, 1948. 1760

KENT COUNTY COUNCIL.

Applications are invited for four appointments of ASSISTANT ARCHITECTS, each at a salary in accordance with A.P.T. Division, Grade V(a) (£550-£610 a year).

The posts are superannuable, and successful candidates will be required to pass a medical examination.

Candidates must be Members of the Royal Institute of British Architects, by examination, have previous service with a Local Authority, be experienced in the design, construction and supervision of educational or other County buildings, and be fully competent to take charge of projects.

Applications, on forms obtainable from the County Architect, Springfield, Maidstone, should be delivered to him not later than the 30th September, 1948.

W. L. PLATTS,
Clerk of the County Council.

County Hall, Maidstone.
30th August, 1948. 1733

PEMBROKESHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointments on the permanent staff:—

TWO SENIOR ARCHITECTS. Qualified as Fellows or Associates of the R.I.B.A., and having specialized knowledge and experience in the design and construction of Educational Buildings, Police Housing, Hospitals, etc. Salary in each case, A.P. & T. Division, Grade VII, £635 to £710 p.a. Commencing figure in accordance with qualifications and experience.

TWO SENIOR ASSISTANT ARCHITECTS. Qualified members of the R.I.B.A. by examination, and having experience of contemporary architectural design. Salary scale, A.P. & T. Division, VI, £595 to £660 p.a., according to qualifications and experience.

TWO ARCHITECTURAL ASSISTANTS. Should be up to the Inter. exam. standard of the R.I.B.A., and have had good experience in general architectural work, including schemes and the preparation of working drawings. Salary scale, A.P. & T. Division, Grade III, £450 to £495 p.a., according to qualifications and experience.

ONE SENIOR QUANTITY SURVEYOR. Should be P.A.S.I. (Quantities Section), and have had considerable experience in the preparation of quantities, specifications, site measuring, estimates and final accounts. Salary scale, A.P. & T. Division, Grade VI, £595 to £660 p.a., according to qualifications and experience.

ONE ASSISTANT QUANTITY SURVEYOR. Preference will be given to applicants who are Professional Associate Members of the Chartered Surveyors' Institute, and experienced in the preparation of Bills of Quantities for Public Buildings, etc. Salary scale, A.P. & T. Division, Grade V, £520 to £570 p.a., according to qualifications and experience.

All the above appointments will be superannuable and subject to medical examination. Canvassing will be a disqualification. Applications from persons serving in H.M. Forces should state their position regarding their release. Ex-Service candidates with experience prior to their war service will be specially considered. Details of these appointments and forms of application may be obtained from Walter Barrett, M.B.E., A.R.I.B.A., County Architect, County Offices, Haverfordwest, to whom applications should be delivered not later than 30th September, 1948.

W. E. BUFTON,
Clerk of the County Council.

County Offices, Haverfordwest.
31st August, 1948. 1727

CUMBERLAND COUNTY COUNCIL.
PLANNING ASSISTANT.

Applications are invited for the above appointment, in the Department of the County Planning Officer.

The commencing salary for this post will be within Grade V of the National Scales (£520-£570 per annum).

A car allowance for an 8 h.p. car (at present £80 per annum, plus a mileage allowance) and subsistence allowance will be paid in accordance with the County Council's scales for the time being in force.

Candidates should be Members or Associate Members of the Town Planning Institute, and a qualification in Architecture or in Engineering in addition will be an advantage.

Applicants must be fully conversant with the Town and Country Planning Acts, and Orders made thereunder, and be fully competent to carry out field work, plotting and preparation of plans, and have had previous experience with a Planning Authority.

The appointment is subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to undergo a medical examination.

The appointment will be terminable by one month's notice in writing on either side.

Application forms for this appointment are obtainable on request from the County Planning Officer, Citadel Chambers, Carlisle, to whom completed applications, accompanied by a copy of one testimonial and the names and addresses of two referees, and endorsed "Planning Assistant," should be forwarded, using the prescribed form, to arrive not later than first post on the 27th September, 1948.

G. N. C. SWIFT,
Clerk of the County Council.

The Courts, Carlisle. 1762

COUNTY BOROUGH OF EAST HAM.
ARCHITECTURAL ASSISTANT (GRADE IV)—
BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the permanent appointment of Architectural Assistant, in the Borough Engineer's Department. Salary £480 by £15 to £525 per annum, plus the appropriate London allowance.

A salary in excess of the minimum of the grade may be paid according to the qualifications and experience of the successful candidate.

The Council have in course of preparation a large and varied programme of interesting works which it is anticipated will not be affected by the proposed reductions in capital expenditure.

Housing accommodation is not provided, but the Council will be prepared to consider an application for a subsistence allowance from a person appointed who may be unable to obtain suitable accommodation.

Particulars of the terms and conditions of appointment and form of application (which must be returned by Friday, the 24th September, 1948) may be obtained from the undersigned.

Canvassing in any form will disqualify.

H. A. EDWARDS,
Town Clerk.

Town Hall, East Ham, E.6.
September, 1948. 1757

COUNTY OF THE CITY OF WORCESTER.
LOCAL EDUCATION AUTHORITY.

The Local Education Authority invite Architects of British nationality to submit designs for a Competition for a Secondary Modern School, to be erected on a site at Nunnery Farm, Spetchley Road, Worcester.

Deposit required for conditions: Two guineas.

Premiums offered: 1st, £400; 2nd, £200; 3rd, £100.

Assessor: John B. Surman, F.R.I.B.A.

Date for submission of designs: 21st February, 1949.

Application should be made for conditions to the Secretary for Education, Education Department, 4, Copenhagen Street, Worcester.

G. H. DIGBY-SEYMOUR,
Town Clerk, Clerk to the Education Authority.

1768

COUNTY BOROUGH OF EAST HAM
EDUCATION COMMITTEE.
SCHOOL OF BUILDING.

Applications are invited for the post of full-time TEACHER OF SCIENCE (mainly Physics and Mathematics). Applicants should hold a degree or equivalent qualification. Salary in accordance with the Burnham Scales (London area).

Form of application, which may be obtained from the undersigned, should be returned as soon as possible.

L. JOHN DYER,
Chief Education Officer.

Education Office, Town Hall Annexe,
Barking Road, East Ham, E.6.
6th September, 1948. 1784

BOROUGH OF WISBECH.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.
PERMANENT STAFF.

Applications are invited for the appointment of Architectural Assistant, Grade III, A.P.T. Division of the National Scale, £450×£15 to £495.

Applicants should have had general architectural experience. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1937, and to the successful candidate passing a medical examination, and to one calendar month's notice on either side.

The person appointed will be required to devote the whole of his time to the duties of the particular office.

Applications, suitably endorsed, stating age, qualifications and particulars of experience, with names of two persons to whom reference may be made, should be received by the undersigned not later than Friday, 8th October, 1948.

J. E. SIDDALL,
Town Clerk.

Town Hall, Wisbech, Cambs.
8th September, 1948. 1765

COUNTY BOROUGH OF WEST BROMWICH.
BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following appointments in the Borough Surveyor's Department:—

(*a*) SENIOR ASSISTANT ARCHITECT. A.P.T., Grade VI (£595-£660).

(*b*) ENGINEERING ASSISTANT. A.P.T., Grade III (£450-£495).

The appointments may be made at a point within the scales, according to qualifications and experience. The appointments are subject to the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, appropriately endorsed, stating age, qualifications, experience, present and past appointments, together with the names of two persons to whom reference may be made, should be delivered to the Borough Engineer and Surveyor, Town Hall, West Bromwich, not later than the 30th September, 1948.

H. SCHOFIELD, B.Sc.(Eng.), A.M.I.C.E.,
Borough Engineer and Surveyor.

Town Hall, West Bromwich.
6th September, 1948. 1761

COUNTY BOROUGH OF EAST HAM.
APPOINTMENT OF CHIEF ASSISTANT PLANNING OFFICER.

Applications are invited from qualified persons for the permanent appointment of Chief Assistant Planning Officer, in the Borough Engineer and Surveyor's Department.

Candidates must be Associate Members of the Town Planning Institute or hold an equivalent qualification, and be competent to undertake town planning work in all aspects.

Salary will be in accordance with Grade VII of the National Salary scales, *viz.*, £635×£25 to £710 per annum, plus the appropriate London weighting allowance. The commencing salary may be fixed at an incremental stage above the minimum, according to qualifications and experience.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to the Council's conditions of service for official staff in force from time to time, and the successful candidate will be required to pass a medical examination.

Housing accommodation is not provided, but the Council will be prepared to consider applications for subsistence allowances in appropriate cases from persons appointed who may be unable to obtain suitable accommodation.

Application forms are obtainable from the Town Clerk's office, and must be delivered to the undersigned, together with copies of three recent testimonials, not later than the 27th September, 1948.

Canvassing in any form will be a disqualification.

H. A. EDWARDS,
Town Clerk.

Town Hall, East Ham, E.6.
September, 1948. 1770

WARWICKSHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments :—

(*a*) CHIEF PLANNING ASSISTANT. Salary £742 10s. by annual increments of £27 10s. to £797 10s. per annum.

(*b*) SENIOR PLANNING ASSISTANT. A.P.T., Grade VII (£635 to £710 per annum).

(*c*) TWO PLANNING ASSISTANTS. A.P.T., Grade V (£520 to £570 per annum).

(*d*) TWO PLANNING ASSISTANTS. A.P.T., Grade II (£420 to £465 per annum).

Applicants for post (*a*) must be Corporate Members of the Town Planning Institute, and have had considerable experience in the preparation of planning schemes. Experience in the control of staff is essential. The successful applicant will be required to co-ordinate the work of the senior area planning assistants in the preparation of the County Development Plan.

Applicants for post (*b*) must be Corporate Members of the Town Planning Institute. The person appointed will be in charge of the work connected with one section of the Development Plan.

Applicants for post (*c*) must have good general planning experience, and preference will be given in one case to applicants with experience of development control.

Applicants for post (*d*) will be required to assist in the preparation of the Development Plan.

The appointments are subject to the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Forms of application may be obtained from J. J. Brooks, M.T.P.I., M.I.Mun.E., County Planning Officer, Shire Hall, Warwick, to whom applications should be sent not later than the 2nd October, 1948.

Canvassing, directly or indirectly, will be a disqualification.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall, Warwick.
30th August, 1948. 1759

DENBIGHSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

The above County Council invite applications for the following post :—

BUILDING INSPECTOR (Wrexham Area). Grade V, A.P.T. Division. Salary £520-£570 per annum.

Must hold the Building Inspector's Certificate of the Surveyor's Institute or the R.I.B.A.

Must have had experience in the preparation of detailed reports and specifications in respect of maintenance and repairs to all classes of County property, and the supervision of such works, must also be capable of preparing plans for small alterations and improvements, surveying, and levelling.

The appointment will be subject to termination by one month's notice on either side, expiring at the end of any month, and also the provisions of the Local Government Superannuation Act, 1937.

The successful candidate will be required to pass a medical examination, and to reside in such place in the County as the County Council may direct.

Applications, giving age, experience, and particulars of present and previous appointments, and accompanied by copies of three recent testimonials, to be sent to me the undersigned in a sealed envelope endorsed "Building Inspector," by not later than 30th September, 1948.

WILLIAM JONES,
Clerk to the County Council.

County Offices, Ruthin.
9th September, 1948. 1794

BOROUGH OF SOUTHGATE.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the above-mentioned appointment in the Department of the Borough Engineer and Surveyor.

The salary will be Grade VII of the A.P.T. Division of the National Joint Council Scales, plus the appropriate London weighting.

Applicants must be Associate Members of the Royal Institute of British Architects or hold an equivalent qualification.

Forms of application may be obtained from the Borough Engineer and Surveyor, and should be returned to the undersigned not later than 9 a.m. on Monday, the 4th October, 1948.

Canvassing, either directly or indirectly, will be a disqualification.

GORDON H. TAYLOR,
Town Clerk.

Town Hall, Palmers Green, London, N.13.
14th September, 1948. 1788

QUANTITY SURVEYORS, with professional qualifications, are urgently required by several Government Departments for non-established posts in London and the provinces, and occasionally overseas. Salaries are up to £700 per annum, according to age, qualifications and experience, and unqualified applicants with at least five years' experience will be considered. Apply to J./Q.S., Room 377, The Ministry of Labour and National Service, Technical and Scientific Register, York House, Kingsway, W.C.2. 1790

CARDIGANSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the permanent staff in the above Department in accordance with the National Scale of Salaries :—

ONE ARCHITECTURAL ASSISTANT. Grade II, A.P.T. Division.

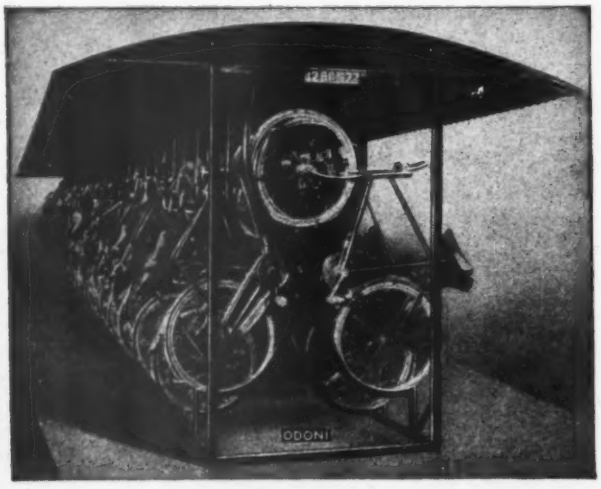
ONE ARCHITECTURAL ASSISTANT. Grade I, A.P.T. Division.

Applications, stating age, qualifications, experience, present position and salary, together with two copies of recent testimonials, and the name of one referee, should reach the undersigned not later than 4th October, 1948.

The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

IVOR EVANS,
Clerk of the Council.

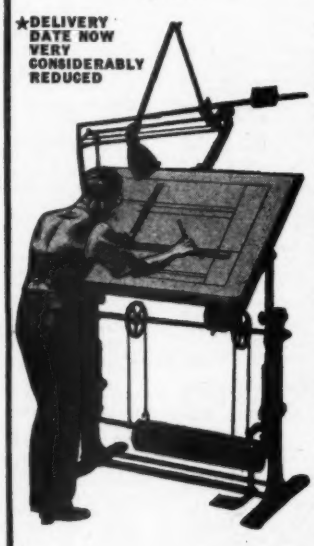
County Council Offices, Aberystwyth.
7th September, 1948. 1791



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BOROUGH OF SWINDON.

Applications are invited for the following appointments on the staff of the Borough Architect and Planning Officer :—

(a) ASSISTANT ARCHITECT (PLANNING), at a salary in accordance with A.P.T., Grade VII (£635-£710) of the National Scales. Applicants must have good planning experience, and preference will be given to members of the Town Planning Institute, who should possess in addition a recognized qualification in architecture.

(b) BUILDING SURVEYOR at a salary in accordance with A.P.T., Grade IV (£480-£525) of the National Scales.

Applicants for this post should have had considerable experience in building inspection, Town Planning and Bye-Law Legislation, inspection of premises for fire protection and inspections under the Factories Acts. Preference will be given to persons holding appropriate qualifications.

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination, and are terminable on one month's notice on either side.

Applications, on forms obtainable from me, must be returned not later than 30th September, 1948.

Canvassing in any form will be deemed a disqualification.

D. MURRAY JOHN,
Town Clerk.

Civic Offices, Swindon.
9th September, 1948. 1781

EAST SUFFOLK COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts in the County Architect's Department :—

(a) GRADE A ASSISTANT ARCHITECTS. A.P.T., Grades V and VI. Consolidated salary, £520-£660.

(b) GRADE B ASSISTANT ARCHITECTS. A.P.T., Grades III and IV. Consolidated salary, £450-£525.

(c) BUILDING SURVEYORS. A.P.T., Grade II. Consolidated salary, £420-£465.

The commencing salary in the grades will be fixed according to the qualifications and experience of the candidate.

Applicants for appointments (a) must be Registered Architects, and preferably Associates of the R.I.B.A. The work to be dealt with is that normally carried out by a Local Authority. Candidates must be quick and accurate draughtsmen, capable of carrying a job through in all its stages and with a sound knowledge of design, building construction and specifications.

Applicants for appointments (b) must be Registered Architects, and preferably members of the R.I.B.A. They must be quick and accurate draughtsmen, fully conversant with ¼ in. scale, half inch and full size details for all types of buildings normally dealt with by a Local Authority, and have a good knowledge of design, construction and specifications.

Applicants for appointments (c) must have a first-class practical knowledge of the Building Trade, with experience of supervision of works in progress. They must be thoroughly conversant with Bills of Quantities, specifications and drawings, be able to draft normal building reports, and should preferably hold an appropriate Surveyor's Institution Examination, City and Guilds Certificate, or be a member of the Incorporated Clerks of Works' Association.

Duties will include supervision of minor new works, alterations and additions to buildings, the inspection and maintenance of buildings, the writing of reports and specifications for minor repairs and redecoration of County Buildings generally.

The successful applicant will be required to provide and maintain a car in connection with his duties, for which the appropriate National Scale will be paid.

The appointments will be subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, 1937. The successful applicants will be required to pass a medical examination.

Applications, stating age, qualifications and full details of previous experience, accompanied by copies of three recent testimonials, should be sent to E. J. Symcox, F.R.I.B.A., County Architect, County Hall, Ipswich, not later than 4th October, 1948.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

G. C. LIGHTFOOT,
Clerk of the Council.

County Hall, Ipswich. 1782

COUNTY COUNCIL OF RENFREW.
TOWN PLANNING STAFF.

The Council invite applications for the appointment of SENIOR TOWN PLANNING ASSISTANT, in the County Engineer's Department. Salary scale £480, rising by varying annual increments to £570 per annum inclusive of all bonus. Candidates should have passed the Final examination of the Town Planning Institute or hold a Professional Qualification in Civil Engineering, Architecture or Surveying; and should have experience in the preparation of basic surveys and in the control of interim development, and should be conversant with the Town and Country Planning (Scotland) Act, 1947, and the various Regulations and Orders. The appointment is subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and the successful candidate will require to pass a medical examination.

Applications, stating age, qualifications and experience, should be lodged immediately with the County Clerk, County Buildings, Paisley. 1795

ARMAGH COUNTY COUNCIL.
APPOINTMENT OF ASSISTANT PLANNING OFFICER.

Applications are invited for the post of Senior Assistant Planning Officer in the Planning Department of Armagh County Council, Northern Ireland.

Candidates should be at least Associates of the Royal Institute British Architects, or hold exempting University School Diploma, must be Associate Members of the Town Planning Institute by examination; and must possess at least three years' experience in planning work under a Planning Authority.

The salary attached to the post is £425×£25—£600 p.a., with appropriate cost-of-living bonus, and the successful candidate may be placed at a point on the salary scale higher than the initial figure, according to his qualifications and experience. The person appointed will be required to provide and maintain a motor car, for which a travelling allowance of £150 per annum will be payable by the Council.

A Flat is available at the County Planning Office, Armagh, containing living room with dining annexe, kitchen, bathroom, two bedrooms, and garage accommodation, for which a yearly rent of £35 free of taxes is payable.

The appointment is full-time and pensionable, but may be terminated by three months' notice on either side.

Preference will be given to suitable qualified candidates who served with H.M. Forces during the 1914-1918 or 1939-1945 wars, provided the Council is satisfied that such candidate can or within a reasonable time will be able to fill the vacant post efficiently.

Applications will be received by the undersigned up to but not later than the 1st October, 1948, and should give age, full details of education, qualifications and experience, with dates, and be accompanied by copies of at least two recent testimonials, and a medical certificate of physical fitness. Applicants are also required to state the date when they can take up duty if appointed.

W. JENKINSON,
Secretary to County Council.

Secretary's Office, 1, Charlemont Place, Armagh (N.I.).
7th September, 1948. 1772

CITY OF LEICESTER.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment on the Established Staff, which is subject to the Local Government Superannuation Act, 1937, a satisfactory medical examination, and a month's notice on either side for determination :—

ASSISTANT ARCHITECT. A.P.T., Grade V, £520-£570 per annum.

Applicants should be Registered Architects, and preferably Associates of the R.I.B.A. Experience in the design of Educational Buildings is desirable.

Candidates must, when making application, disclose in writing whether to their knowledge they are related to any member of the Council or to the holder of any senior office under the Council. Canvassing in any form will be a disqualification.

Applications, stating age, experience, and qualifications, past and present appointments, with present salary, together with copies of two recent testimonials, should be sent to the undersigned, not later than first post, Saturday, 25th September, 1948.

J. H. LLOYD OWEN, B.Arch., A.R.I.B.A.,
City Architect.

7, Newarke Street, Leicester.
10th September, 1948. 1797

GELLYGAER URBAN DISTRICT COUNCIL.
ENGINEER, SURVEYOR AND ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments :—

(a) GENERAL ENGINEERING ASSISTANT, at a salary in accordance with A.P.T., Grade V (£520 per annum to £570 per annum).

(b) ARCHITECTURAL ASSISTANT, at a salary in accordance with A.P.T., Grade IV (£480 per annum to £525 per annum).

Applicants for appointment (a) must be Associate Members of the Institute of Civil Engineers and/or hold the Testamur of the Institute of Municipal and County Engineers, and have experience of the work of the Engineer and Surveyor's Department of a Local Authority; a knowledge of procedure under the Private Street Works Act, 1892, will be an advantage. Applicants for appointment (b) must be Members of the R.I.B.A., and have experience of housing and other work of a Local Authority, including Building Quantities and Pricing; a knowledge of Town and Country Planning will be an advantage.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. Both appointments are terminable by one month's notice.

Canvassing, either directly or indirectly, will be a disqualification.

Applications, stating all relevant details, together with names and addresses of two persons to whom reference may be made, should be received by the undersigned not later than 30th September, 1948.

D. W. C. MORGAN,
Clerk.

Council Offices, Hengoed, Glam.
8th September, 1948. 1773

GOVERNMENT OF NORTHERN IRELAND.
CIVIL SERVICE COMMISSION.
ASSISTANT ARCHITECTS.

Applications are invited for Assistant Architect and Architectural Assistant posts in the Ministry of Finance. Subject to a probationary period of two years, the posts are permanent and pensionable.

Remuneration : The scales of salary attaching to the posts are :—

Assistant Architect (Class II), £500×£25—£750.
Assistant Architect (Class III), £400×£20—£600.
Architectural Assistant (Class IV), £250×20—£500.

The entry point to the Class II salary scale depends on age, *viz.*, £500 at age 26, plus or minus £25 for each year above or below that age. The upper entry point is, however, subject to a limit of £650 per annum. The commencing salary within the scales for Classes III and IV will be fixed according to qualifications and experience.

Qualifications : (a) Assistant Architect, Classes II and III. Candidates must be Registered Architects by examination. In addition, candidates for Class II must have had good general experience in an Architect's office, including the writing of specifications. (b) Architectural Assistants, Class IV. Candidates must have had at least four years' experience in an Architect's drawing office. Preference will be given to candidates who have a good knowledge of construction.

Candidates appointed in Grade IV who subsequently gain admission to the Register of Architects will be advanced to Grade III.

Preference will be given to ex-Service candidates of the 1914-1918 or 1939-45 war, provided that such candidates can or within a reasonable time will be able to fill the posts efficiently. Applications (to be made on the prescribed form obtainable from the Secretary, Civil Service Commission, Stormont, Belfast), with copies of two recent testimonials, must be received not later than 6th October, 1948. 1793

LONDON COUNTY COUNCIL.

Required at Brixton School of Building, Ferndale Road, S.W.4, to commence as soon as possible, full-time LECTURERS in the following subjects :—(a) Building (2 posts); applicants should hold a Higher National Certificate or Diploma in Building or equivalent qualification; competence to teach builder's quantities, estimating, and other relative subjects a recommendation for one post. (b) Architecture (2 posts); applicants should be Fellows or Associates of the R.I.B.A.; a diploma of a recognized school of architecture a recommendation. Candidates for all posts should have had teaching and industrial or professional experience. Burnham scale salary (£300×£15—£345, and London allowance), with additions for approved qualifications and within prescribed limits initial increments for approved experience. Application forms (stamped addressed foolscap envelope necessary) from the Principal at the school, returnable by 16th October, 1948 (1927). 1777

BOROUGH OF ILFORD, ESSEX.
APPOINTMENT OF :

(a) ENGINEERING ASSISTANT (Grade VI).
(b) ARCHITECTURAL ASSISTANT (Grade IV).
(c) QUANTITY SURVEYING ASSISTANT (TEMPORARY) (Grade V).

Applications are invited for the following appointment on the staff of the Borough Engineer's Department :—

ARCHITECTURAL ASSISTANT (PERMANENT). Salary in accordance with Grade IV of the National Scales of Salaries, *viz.*, £480 by £15 to £525, plus £50. London weighting at age 26 or over.

Candidates should possess approved qualifications, and have general Architectural experience in Municipal buildings, particularly with regard to the preparation of contracts and working drawings.

The appointment will be subject to one month's notice on either side, to the provisions of the Local Government Superannuation Act, 1937, the National Conditions of Service, and to passing a medical examination by the Medical Officer of Health.

Forms of application may be obtained from the Borough Engineer, Town Hall, Ilford, and should be returned to the undersigned not later than 2nd October, 1948.

K. F. B. NICHOLLS,
Town Clerk.

September, 1948. 1796

CIVIL SERVICE COMMISSION.

Applications are invited for four permanent appointments as JUNIOR INVESTIGATOR in the Royal Commission on Historical Monuments (England).

Salary scale £330×£20—£525 for men. Starting salary according to age. The salary scales are somewhat lower in the provinces and for women. Prospects of promotion.

Candidates must be between the ages of 21-35 years on the 1st August, 1948. They must satisfy the Civil Service Commissioners that they have received such systematic education and possess such knowledge as to fit them for the post. Those holding a University degree or corresponding qualification will be given preference. A knowledge of the history and practice of English Architecture is necessary.

Particulars and application form from Secretary, Royal Commission on Historical Monuments (England), 37, Onslow Gardens, London, S.W.7, quoting No. 2289. Completed application forms must be received by him by 30th October, 1948. 1789

BATTERSEA BOROUGH COUNCIL.
APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Chief Architectural Assistant, in the Borough Engineer and Surveyor's Department. The commencing salary will be £685 per annum in Grade VIII of the National Joint Council's Scheme, rising to the maximum of the Grade, and by two further annual increments of £25 to an ultimate maximum of £810 per annum, plus London weighting.

Candidates must be Associate Members of the Royal Institute of British Architects, and have had extensive experience in architectural design and construction. In addition administrative experience with a Local Authority would be an advantage.

The appointment will be determinable by one month's notice on either side, and is subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Lavender Hill, S.W.11, and should be returned together with copies of three recent testimonials, and endorsed "Chief Architectural Assistant," to reach the undersigned not later than 4th October, 1948.

R. G. BERRY,
Town Clerk.

Town Hall, Lavender Hill, S.W.11. 1792

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Architectural Appointments Vacant

4 lines or under, 8s.; each additional line, 1s. 6d.

ARCHITECT'S ASSISTANT wanted immediately in Torquay area practice; surveys, working drawings; quick draughtsman. Write, stating age, experience, salary required. Box 1775.

ASSISTANT ARCHITECT required in busy General Practice. Reply, stating age, qualifications, experience, and salary required, Johnson & Crabtree, F./F.R.I.B.A., 20, Priory Place, Doncaster. Tel. 3445. 1774

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PORTSMOUTH.—Architects have vacancy for an ARCHITECTURAL and SURVEYING ASSISTANT with ability to act on own initiative and take some degree of responsibility; good prospects for a keen man. Full particulars, including experience, salary required, to Box 1688.

MANAGING ASSISTANT required immediately, with a view to Partnership, to take charge of Maidstone Branch office; house available; married man with children preferred; age approximately 30-40; member of R.I.B.A. essential and Town Planning qualifications desirable; experience of Local Authority housing, including site layout plans, desirable. Full particulars and salary required to Lawrence Farman & Partners, Chartered Architects, 258, Upper Richmond Road, London, S.W.14. 1743

ARCHITECT'S ASSISTANT (Qualified) required for Multiple firm, Birmingham office; progressive position offered to energetic man; state age, experience, qualifications and salary required. Box 1730.

ARCHITECTURAL ASSISTANT required; Intermediate R.I.B.A. standard; some office experience preferable, but not essential; salary according to ability. Write, stating age and experience, to Staff Officer, Handley Page, Ltd., Claremont Road, Cricklewood, N.W.2. 1769

DRAUGHTSMAN required for the design and detailing of Industrial Buildings for Housing Plant and Machinery, Works Offices, Laboratories, Messrooms, etc.; applicants should be capable of preparing a Bill of Quantities; minimum salary in accordance with A.E.S.D. standard. Give details of training, experience, nature of present position, salary required, and whether married or single, to United Kingdom Gas Corporation, Ltd., Bridgewater House, 60, Whitworth Street, Manchester, 1. 1767

REQUIRED immediately for West End Architect's office, JUNIOR DRAUGHTSMAN; capable of preparing ¼ in. scale working drawings, details, etc. Write stating age, experience, and salary required, to Box 1766.

SENIOR ARCHITECTURAL ASSISTANT required; salary £550-£650, according to capabilities; knowledge of hospital work desirable, but not essential. Applications, stating age, qualifications and experience, to The Surveyor, London Hospital, Whitechapel, E.1. 1764

ASSISTANTS required for Chartered Architects' office, Westminster; salaries up to £500 p.a.; no Saturdays. Apply, giving full details of experience and capabilities, Box 1763.

CAPABLE ARCHITECTURAL ASSISTANT required immediately; experience of good quality building desirable; good salary and interesting work. Apply Lavender, Twentyman & Percy, 2, Waterloo Road, Wolverhampton. 1776

ARCHITECTURAL ASSISTANT required for the Surveyors' Staff of a London Brewery; preferably R.I.B.A.; Intermediate standard. Box 1798.

ARCHITECTURAL DRAUGHTSMAN, trained at Architectural School, wanted for Exhibition work; perspectives essential; good salary. Apply Publicity Planning, Ltd., 176, Lichfield Court, Richmond, Surrey. 1780

ARCHITECT, Manchester area, requires part- or whole-time assistance of good ARCHITECTURAL DRAUGHTSMAN; housing and commercial work. Box 1787.

Architectural Appointments Wanted

ARCHITECTURAL ASSISTANT, female, Intermediate R.I.B.A. standard, requires work in office, preferably in London. Box 175.

YOUNG MAN, released from Forces, requires an opening in an Architect's office; he has some drawing board experience and a fair sketching ability, and with opportunity would work devotedly; preferential wish for London or S.E. areas. Box 176.

CHIEF ARCHITECTURAL ASSISTANT (A.R.I.B.A.), 32, desires a position in West Country, preferably in private practice; well experienced in all branches of the profession. Box 177.

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AN Associate R.I.B.A., with over 15 months' experience in the West End, seeks suitable appointment in the County of London. Write Box 178.

JUNIOR ARCHITECTURAL ASSISTANT requires progressive position; Liverpool or Lancaster; available from 8th November; good general office experience, quick draughtsman, able to work with minimum of supervision. Box 179.

Other Appointments Vacant

4 lines or under, 8s.; each additional line, 1s. 6d.

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LONDON COUNTY COUNCIL

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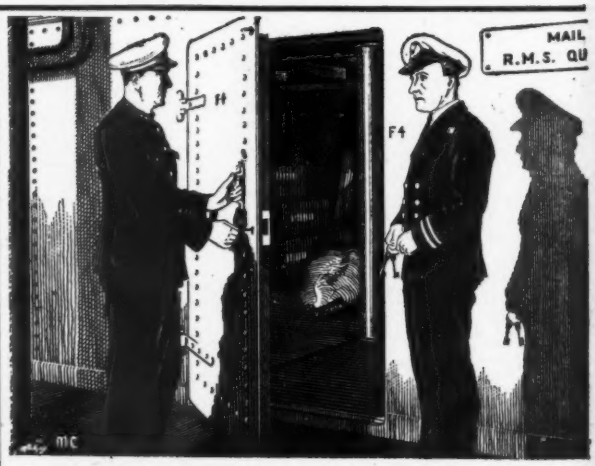
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1202



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ASSISTANT QUANTITY SURVEYOR required for site measurements on large power station; London area. Write, stating age, experience and salary, to L. G. Mouchel & Partners, Ltd., Civil Engineers, 38, Victoria Street, London, S.W.1. 1783

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ARCHITECTURAL ASSISTANT can undertake work in spare time; tracing, drawing, and model making. 113, Clapton Common, London, E.5. 1617

A.R.I.B.A. offers Part-time Assistance in London and Home Counties; surveys, sketches, working drawings, specifications, etc. Box 1745.

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Alphabetical Index to Advertisers

	PAGE
Allied Ironfounders, Ltd.	—
Aldas Electric, Ltd.	lx
Anderson Construction Co., Ltd.	—
Anderson, D., & Son, Ltd.	xxxvi
Andrews Bros. (Bristol), Ltd.	lviii
Arens Controls, Ltd.	—
Associated Metal Works (Glasgow), Ltd.	—
Austin Hall Group of Companies, The	xvii
Automatic Telephone & Electric Co., Ltd.	lv
Baldwin, Son & Co., Ltd.	lxii
Banister, Walton & Co., Ltd.	xii
Bassett Lowke, Ltd.	liii
Bath Cabinet Makers & Artcrafts, Ltd.	—
Blackburn, Thos., & Sons, Ltd.	xlviii
Bone, Connell & Co., Ltd.	lxii
Boulton & Paul, Ltd.	—
Bowaters Building Boards, Ltd.	ii
Braby, Frdk., & Co., Ltd	xxxi
Braithwaite & Co., Engineers, Ltd.	lxix
Bratt Colbran, Ltd.	xxix
Briggs, Wm., & Sons, Ltd.	lxxi
British Aluminium Co., Ltd.	—
British Ironfounders' Association	—
British National Electrics, Ltd.	—
British Trane Co., Ltd.	lix
Broad & Co., Ltd.	lvii
Cable Makers' Association	xlvii
Carlisle Electrical Manufacturing Co., Ltd.	—
Cargo Fleet Iron Co., Ltd.	—
Cement Marketing Co., Ltd.	xxv
Chubb & Sons, Lock & Safe Co., Ltd.	lxviii
Clark & Eaton, James, Ltd.	xxxix
Cloakroom Equipment, Ltd.	lxiii
Colt, W. H. (London), Ltd.	iii
Copper Development Association	xix
Crabtree, J. A., & Co., Ltd.	xxx
Croft Granite Brick & Concrete Co., Ltd.	—
C.S.A. Industries, Ltd.	xxvi
De La Rue Insulation, Ltd.	xlii
Denny, Mott & Dickson, Ltd.	lxix
Doulton & Co., Ltd.	xxiv
Eagle Pencil Co.	—
Edgar, Wm., & Son, Ltd.	—
Ellis School of Building	lxix
Ellison, George, Ltd.	lx ix
English Joinery Manufacturers' Association	xxxvii
Fairitt Engineering Co.	lxii
Fenning & Co., Ltd.	xiii
Flush Door Manufacturing Association, Ltd.	xxviii
Fordham Pressings, Ltd.	ii

	PAGE
Fothergill & Harvey, Ltd.	iv
French, Thos., & Sons, Ltd.	xxxii
Froy, W. N., & Sons, Ltd.	xxxiv
Gaskell & Chambers, Ltd.	liii
General Accessories Co., Ltd., The	—
General Cable Manufacturing Co., Ltd.	lvi
General Electric Co., Ltd., The	xviii
Gillett & Johnston, Ltd.	lvi
Girlings Ferro-Concrete Co., Ltd.	xxxviii
Greenwood's & Airvac Ventilating Co., Ltd.	ii
Grenville, Perrott	lxix
Griffiths Bros. & Co., Ltd.	lxi
Gyproc Products, Ltd.	—
Hall, J. & E., Ltd.	vii
Hammersmith School of Building	lxviii
Hammond & Champness Ltd.	lxx
Harvey, G. A., & Co. (London), Ltd.	—
Helliwell & Co., Ltd.	—
Henderson, P. C., Ltd.	xliii
Henderson Safety Tank Co., Ltd.	liii
Hills Patent Glazing Co., Ltd.	—
Hollway, W. F., & Brother, Ltd.	li
Holophane, Ltd.	—
Holoplast, Ltd.	—
Hope, Henry, & Sons, Ltd.	xl
Hopton-Wood Stone Firms, Ltd.	—
Imperial Chemical Industries, Ltd.	xxvii
International Correspondence Schools, Ltd.	—
Insulite Products Corporation, Ltd.	lviii
Jenkins, Robt., & Co., Ltd.	lviii
King, George W., Ltd.	xxxv
Lamont, James H., & Co., Ltd.	lx
Lead Industries Development Council	—
Leaderflush, Ltd.	—
Lever, James, & Son, Ltd.	lxx i
Loft Ladders, Ltd.	l
Magnet Joinery Ltd.	lxiv
Marley Tile Co., Ltd.	xxiii
Masonite, Ltd.	—
Mavitta Drafting Machines Ltd.	xlvi
Maxwell, Andrew	lii
Metal Section, Ltd.	lvii
Metallic Seamless Tube Co., Ltd.	—
Metropolitan-Vickers Electric Co., Ltd.	—
Midland Electric Manufacturing Co., Ltd.	xxxiii
Midland Joinery Works, Ltd.	—
Midland Woodworking Co., Ltd.	—
Mills Scaffold Co., Ltd.	lxxii
Ministry of Labour	xvi
Morris, Herbert, Ltd.	lxix
Mumford Bailey & Preston, Ltd.	lxix

	PAGE
National Federation of Clay Industries, The	—
Negus, W. & M., Ltd.	ii
North British Chemicals, Ltd.	lv
Northern Polytechnic	lxix
Odoni, Alfred, A., & Co., Ltd.	lxvii
Paragon Glazing Co., Ltd.	lxx
Philips Amplifiers	liii
Pilkington Bros., Ltd.	xiv
Pritchett & Gold & E.P.S. Co., Ltd.	xv
Prodorite, Ltd.	—
Pynford, Ltd.	vi
Range Boilers, Ltd.	—
Reynolds Light Alloys, Ltd.	—
Rippers, Ltd.	—
Ripolin, Ltd.	xlv
Ronuk, Ltd.	lvi
Sadd, John, & Sons, Ltd.	—
Sadler, Thos., Sons & Co.	lviii
Salter, T. E., Ltd.	lx
Sankey, J. H., & Son, Ltd.	xxi
Santon Ltd.	li
Scaffolding (Great Britain), Ltd.	—
Scalocrete Products, Ltd.	—
Secomastic, Ltd.	liv
Semtex, Ltd.	xliv
Service Electric Co., Ltd.	lxix
Shannon Ltd., The	xlviii
Sharman, R. W., Ltd.	lxix
Simplex Electric Co., Ltd.	lxiii
Smith's English Clocks, Ltd.	xx
Smith's Fireproof Floors, Ltd.	lxi
Southern Lime Association, The	—
Steicon (Industrial Floor), Ltd.	—
Story & Co., Ltd.	xlv
Sundeala Board Co., Ltd.	v
Thornborough & Sons (Manchester), Ltd.	—
Thorp, John B.	—
Thornton, A. G., Ltd.	ii
Tretol, Ltd.	liv
Troughton & Young (Lighting), Ltd.	—
True-Flue, Ltd.	l
Turners Asbestos Cement Co., Ltd.	xxii
United Steel Companies, Ltd., The	—
Venesta, Ltd.	xi
Vulcanite, Ltd.	lix
Wadsworth, Wm., & Sons, Ltd.	lxii
Wardle Engineering Co., Ltd., The	lxix
Watco, Ltd.	xivi
Wellington Tube Works, Ltd.	—
Wheatly & Co., Ltd.	xlix
Williams, John, & Sons (Cardiff), Ltd.	viii
Wimpey, George, & Co., Ltd.	x
Wood of Colchester, Ltd.	lvi

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see pages lxv, lxvi, lxvii, and lxviii.



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PAGE
ii
iv
lxix
lxvii
lxx
liii
xiv
xv
vi
xiv
lvi
lviii
ix
xxi
li
liv
xliv
lxix
xlviii
lxix
lxiii
xx
lxi
xiv
v
ii
liv
i
xxii
xi
lix
lxii
lxix
xivi
xlix
viii
x
lvi

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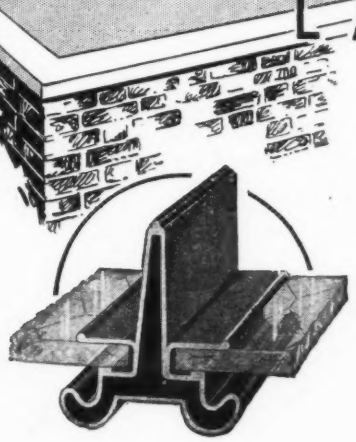
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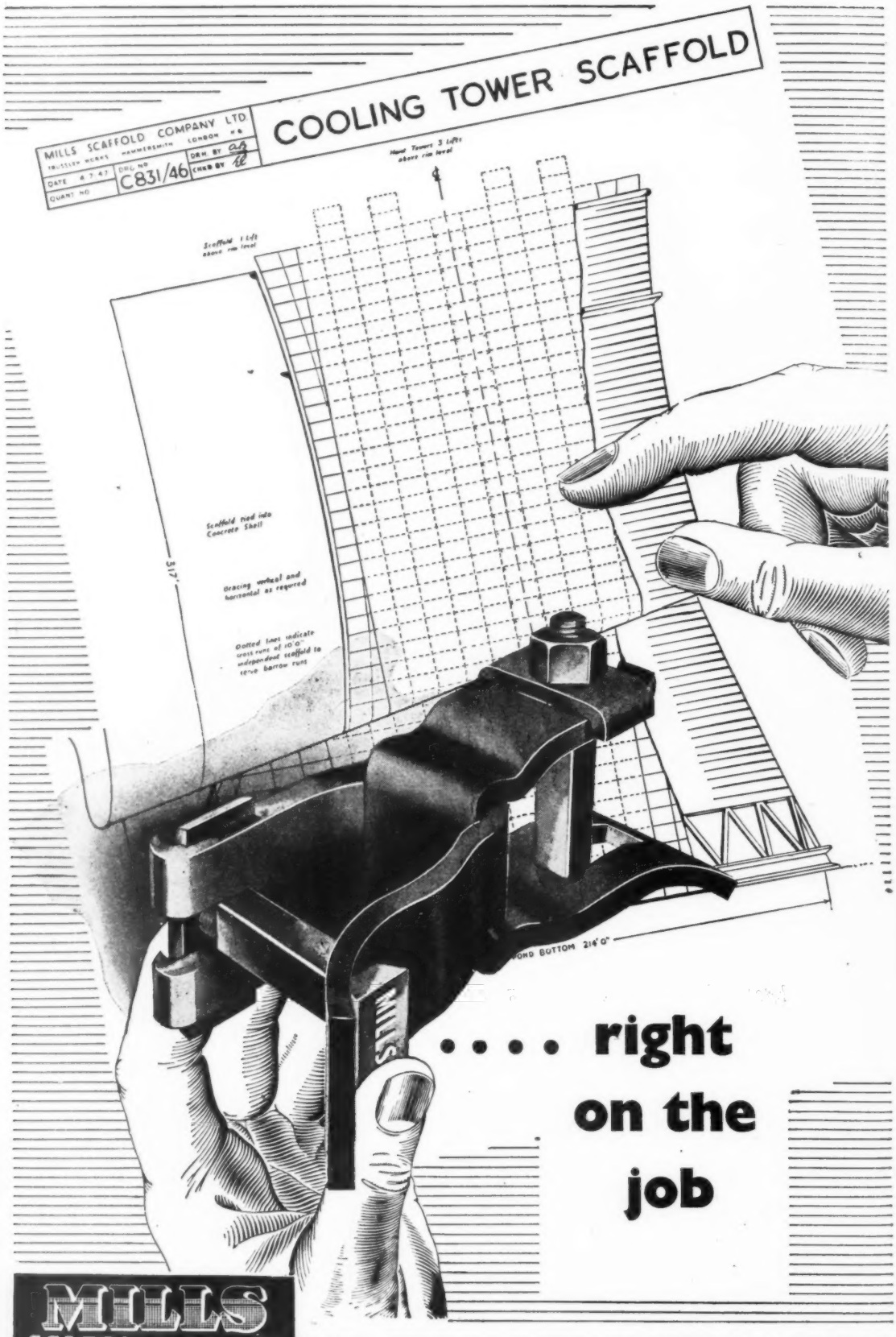


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